

Peptide Modification List

Last update: 2024-07-16

1	Acetylation {Ac}	N-Terminal Modification
2	Fmoc	N-Terminal Modification
3	Biotin	N-Terminal Modification - Fluorescence/Dye Labeling
4	Biotin-Ahx	N-Terminal Modification - Fluorescence/Dye Labeling
5	5-FAM	N-Terminal Modification - Fluorescence/Dye Labeling
6	5-FAM-Ahx	N-Terminal Modification - Fluorescence/Dye Labeling
7	6-FAM	N-Terminal Modification - Fluorescence/Dye Labeling
8	FITC	N-Terminal Modification - Fluorescence/Dye Labeling
9	FITC-Ahx	N-Terminal Modification - Fluorescence/Dye Labeling
10	5-TAMRA	N-Terminal Modification - Fluorescence/Dye Labeling
11	Dansyl	N-Terminal Modification - Fluorescence/Dye Labeling
12	MCA	N-Terminal Modification - Fluorescence/Dye Labeling
13	Rhodamine B	N-Terminal Modification - Fluorescence/Dye Labeling
14	KLH conjugation on N-terminal (-NH ₂)	N-Terminal Modification - Conjugation
15	BSA conjugation on N-terminal (-NH ₂)	N-Terminal Modification - Conjugation
16	OVA conjugation on N-terminal (-NH ₂)	N-Terminal Modification - Conjugation
17	Abz	N-Terminal Modification
18	Benzoyl {Bz}	N-Terminal Modification
19	Br-Ac	N-Terminal Modification
20	Cl-Ac	N-Terminal Modification
21	CBZ	N-Terminal Modification
22	Cy3	N-Terminal Modification
23	Cy5	N-Terminal Modification
24	Dansyl-Ahx	N-Terminal Modification
25	Decanoic acid	N-Terminal Modification
26	Formylation {For}	N-Terminal Modification
27	Hexanoic acid	N-Terminal Modification
28	Lauric acid	N-Terminal Modification
29	Octanoic acid	N-Terminal Modification
30	Stearic acid	N-Terminal Modification
31	Succinylation {Suc}	N-Terminal Modification
32	Bz(4-F)	N-Terminal Modification
33	Bz(4-NO ₂)	N-Terminal Modification
34	Pyr	N-Terminal Modification
35	D-Pyr	N-Terminal Modification
36	{LA}, Lipoic acid	N-Terminal Modification
37	Mpa	N-Terminal Modification

38	Mpr	N-Terminal Modification
39	3-Maleimide	N-Terminal Modification
40	6-Maleimide	N-Terminal Modification
41	Myristoyl (Myr)	N-Terminal Modification - Fatylation
42	Palmitoyl	N-Terminal Modification - Fatylation
43	2-I-Ac	N-Terminal Modification - Fatylation
44	OH-Ac	N-Terminal Modification - Fatylation
45	But	N-Terminal Modification - Fatylation
46	MeOSuc	N-Terminal Modification - Fatylation
47	Iba	N-Terminal Modification - Fatylation
48	5-heptenoic acid	N-Terminal Modification - Fatylation
49	5-Hexynoic acid	N-Terminal Modification - Fatylation
50	heptanedioic acid	N-Terminal Modification - Fatylation
51	Sebacic Acid	N-Terminal Modification - Fatylation
52	Pal	N-Terminal Modification - Fatylation
53	Octanedioic acid	N-Terminal Modification - Fatylation
54	Oleic Acid	N-Terminal Modification - Fatylation
55	Amidation {NH ₂ }	C-Terminal Modification
56	KLH conjugation on C-terminal (-COOH)	C-Terminal Modification - Conjugation
57	BSA conjugation on C-terminal (-COOH)	C-Terminal Modification - Conjugation
58	OVA conjugation on C-terminal (-COOH)	C-Terminal Modification - Conjugation
59	Ester (OEt)	C-Terminal Modification
60	Ester (OMe)	C-Terminal Modification
61	NHMe	C-Terminal Modification
62	NHEt	C-Terminal Modification
63	Tyr (3-NO ₂)	C-Terminal Modification
64	MZ3	C-Terminal Modification
65	Cysteamide {Cya}	C-Terminal Modification
66	AMC (7-Amino-4-Methylcoumarin)	C-Terminal Modification
67	OBzl	C-Terminal Modification
68	OtBu	C-Terminal Modification
69	p-Nitroanilide	C-Terminal Modification
70	ol	C-Terminal Modification
71	FMK	C-Terminal Modification
72	Lys(Biotin)	C-Terminal Modification - Fluorescence/Dye Labeling
73	Lys(FITC)	C-Terminal Modification - Fluorescence/Dye Labeling
74	Lys(5-FAM)	C-Terminal Modification - Fluorescence/Dye Labeling
75	Lys(5-TAMRA)	C-Terminal Modification - Fluorescence/Dye Labeling
76	{Lys(Dnp)}	C-Terminal Modification - Fluorescence/Dye Labeling
77	Lys(Dansyl)	C-Terminal Modification - Fluorescence/Dye Labeling
78	Lys(MCA)	C-Terminal Modification - Fluorescence/Dye Labeling

79	MAPS Asymmetric 2 branches	C-Terminal Modification - MAPS and Carrier Complex
80	MAPS Asymmetric 4 branches	C-Terminal Modification - MAPS and Carrier Complex
81	MAPS Asymmetric 8 branches	C-Terminal Modification - MAPS and Carrier Complex
82	Phosphorylation (pSer)	Other Modification - Phosphorylation
83	Phosphorylation (pTyr)	Other Modification - Phosphorylation
84	Phosphorylation (pThr)	Other Modification - Phosphorylation
85	2 Phosphorylation Sites	Other Modification - Phosphorylation
86	3 Phosphorylation Sites	Other Modification - Phosphorylation
87	KLH conjugation on Cys	Other Modification - Conjugation
88	BSA conjugation on Cys	Other Modification - Conjugation
89	OVA conjugation on Cys	Other Modification - Conjugation
90	DABCYL	Other Modification - Quenched fluorescent peptides
91	Glu (EDANS)	Other Modification - Quenched fluorescent peptides
92	Abz	Other Modification - Quenched fluorescent peptides
93	Tyr (3-NO ₂)	Other Modification - Quenched fluorescent peptides
94	{D-Ala}	Other Modification - D form amino acids
95	{D-Arg}	Other Modification - D form amino acids
96	{D-Asp}	Other Modification - D form amino acids
97	{D-Asn}	Other Modification - D form amino acids
98	{D-Cys}	Other Modification - D form amino acids
99	{D-Glu}	Other Modification - D form amino acids
100	{D-Gln}	Other Modification - D form amino acids
101	{D-His}	Other Modification - D form amino acids
102	{D-Allo-Ile}	Other Modification - D form amino acids
103	{D-Leu}	Other Modification - D form amino acids
104	{D-Lys}	Other Modification - D form amino acids
105	{D-Met}	Other Modification - D form amino acids
106	{D-Pro}	Other Modification - D form amino acids
107	{D-Phe}	Other Modification - D form amino acids
108	{D-Ser}	Other Modification - D form amino acids
109	{D-Tyr}	Other Modification - D form amino acids
110	{D-Thr}	Other Modification - D form amino acids
111	{D-Trp}	Other Modification - D form amino acids
112	{D-Val}	Other Modification - D form amino acids
113	{Gamma-Glu}	Other Modification - Special amino acids
114	{Hyp}	Other Modification - Special amino acids
115	{Cit}	Other Modification - Special amino acids
116	{Beta-Asp}	Other Modification - Special amino acids
117	{D-Beta-Asp}	Other Modification - Special amino acids
118	{D-Gamma-Glu}	Other Modification - Special amino acids
119	Cys(Cam)	Other Modification - Special amino acids

120	D-Cys(Cam)	Other Modification - Special amino acids
121	Cys(Pam)2	Other Modification - Special amino acids
122	{Cys(Acm)}	Other Modification - Special amino acids
123	{Cys(tBu)}	Other Modification - Special amino acids
124	{Met(O)}	Other Modification - Special amino acids
125	{D-Met(O)}	Other Modification - Special amino acids
126	{Met(O)2}	Other Modification - Special amino acids
127	{D-Met(O)2}	Other Modification - Special amino acids
128	{Lys(Ac)}	Other Modification - Special amino acids
129	lys(fmoc)	Other Modification - Special amino acids
130	Ser(Ac)	Other Modification - Special amino acids
131	{Ac-Lys}	Other Modification - Special amino acids
132	{Lys(Dde)}	Other Modification - Special amino acids
133	{Tle}	Other Modification - Special amino acids
134	{D-Ser(octanoic acid)}	Other Modification - Special amino acids
135	2-Thi	Other Modification - Special amino acids
136	3-Thi	Other Modification - Special amino acids
137	{Aib}	Other Modification - Special amino acids
138	{Abu}	Other Modification - Special amino acids
139	{D-Abu}	Other Modification - Special amino acids
140	{Phg}	Other Modification - Special amino acids
141	{D-Phg}	Other Modification - Special amino acids
142	{Nva}	Other Modification - Special amino acids
143	{D-Nva}	Other Modification - Special amino acids
144	{Nle}	Other Modification - Special amino acids
145	{D-Nle}	Other Modification - Special amino acids
146	{D-Cit}	Other Modification - Special amino acids
147	{Orn}	Other Modification - Special amino acids
148	{D-Orn}	Other Modification - Special amino acids
149	{Pen}	Other Modification - Special amino acids
150	{D-Pen}	Other Modification - Special amino acids
151	{Cpg}	Other Modification - Special amino acids
152	{Cha}	Other Modification - Special amino acids
153	{D-Cha}	Other Modification - Special amino acids
154	{Chg}	Other Modification - Special amino acids
155	{D-Chg}	Other Modification - Special amino acids
156	{Dab}	Other Modification - Special amino acids
157	{Dap}	Other Modification - Special amino acids
158	Pra	Other Modification - Special amino acids
159	D-Pra	Other Modification - Special amino acids
160	Allo-Thr	Other Modification - Special amino acids

161	D-Allo-Thr	Other Modification - Special amino acids
162	{D-1-Nal}	Other Modification - Special amino acids
163	{L-1-Nal}	Other Modification - Special amino acids
164	{D-2-Nal}	Other Modification - Special amino acids
165	{L-2-Nal}	Other Modification - Special amino acids
166	{D-2-Pal}	Other Modification - Special amino acids
167	{L-2-Pal}	Other Modification - Special amino acids
168	{D-3-Pal}	Other Modification - Special amino acids
169	{L-3-Pal}	Other Modification - Special amino acids
170	{D-4-Pal}	Other Modification - Special amino acids
171	{L-4-Pal}	Other Modification - Special amino acids
172	{Oic}	Other Modification - Special amino acids
173	{Tic}	Other Modification - Special amino acids
174	{D-Tic}	Other Modification - Special amino acids
175	X (mix of 20 different amino acids with equal mol)	Other Modification - Special amino acids
176	Glycosylation	Other Modification - Glycosylated peptides
177	Mono disulfide bridge	Other Modification - Cyclic peptides
178	Head to tail amide cyclic	Other Modification - Cyclic peptides
179	Amide cyclic (Side chain)	Other Modification - Cyclic peptides
180	Double disulfide bridge	Other Modification - Cyclic peptides
181	Triple disulfide bridge	Other Modification - Cyclic peptides
182	Random disulfide bridge	Other Modification - Cyclic peptides
183	Inter-disulfide bridge (Same sequence)	Other Modification - Cyclic peptides
184	Inter-disulfide bridge (Different sequence)	Other Modification - Cyclic peptides
185	Cyclic bridge through CH ₂ moiety and SH of Cys	Other Modification - Cyclic peptides
186	Stapled peptide (S5-S5)	Other Modification - Stapled peptides
187	Stapled peptide (S5-R8)	Other Modification - Stapled peptides
188	Stapled peptide (R8-R8)	Other Modification - Stapled peptides
189	H ₂ (deuterium)	Other Modification - Isotope Labeling
190	N ₁₅	Other Modification - Isotope Labeling
191	¹³ C ¹⁵ N-K	Other Modification - Isotope Labeling
192	¹³ C ¹⁵ N-R	Other Modification - Isotope Labeling
193	¹³ C ¹⁵ N-A	Other Modification - Isotope Labeling
194	¹³ C ¹⁵ N-I	Other Modification - Isotope Labeling
195	¹³ C ¹⁵ N-L	Other Modification - Isotope Labeling
196	¹³ C ¹⁵ N-F	Other Modification - Isotope Labeling
197	¹³ C ¹⁵ N-V	Other Modification - Isotope Labeling
198	¹³ C ¹⁵ N-G	Other Modification - Isotope Labeling
199	¹³ C ¹⁵ N-S	Other Modification - Isotope Labeling
200	¹⁵ N-V	Other Modification - Isotope Labeling
201	{Ahx}, 6 atoms	Other Modification - Atom Linker

202	{Ava}, 5 atoms	Other Modification - Atom Linker
203	{8-Aoc}	Other Modification - Atom Linker
204	{AEA}	Other Modification - Atom Linker
205	{Ado}	Other Modification - Atom Linker
206	{ANP Linker}	Other Modification - Atom Linker
207	{Mini-PEG}, 9 atoms	Other Modification - PEG
208	{Mini-PEG2}, 13 atoms	Other Modification - PEG
209	{PEG4}, 16 atoms	Other Modification - PEG
210	{PEG6}	Other Modification - PEG
211	{PEG8}	Other Modification - PEG
212	{PEG11}	Other Modification - PEG
213	{PEG12}	Other Modification - PEG
214	Lys(Biotin) (middle)	Other Modification - Fluorescence/Dye Labeling
215	d-Lys(Biotin) (middle)	Other Modification - Fluorescence/Dye Labeling
216	Lys(FITC) (middle)	Other Modification - Fluorescence/Dye Labeling
217	5,6-FAM	Other Modification - Fluorescence/Dye Labeling
218	Lys(5-FAM) (middle)	Other Modification - Fluorescence/Dye Labeling
219	Lys(5,6-FAM)	Other Modification - Fluorescence/Dye Labeling
220	Lys(Dansyl) (middle)	Other Modification - Fluorescence/Dye Labeling
221	Lys(myr)	Other Modification - Fluorescence/Dye Labeling
222	5(6)-TAMTA-	Other Modification - Fluorescence/Dye Labeling
223	Lys(TAMRA) (middle)	Other Modification - Fluorescence/Dye Labeling
224	5-TAMRA-Acp	Other Modification - Fluorescence/Dye Labeling
225	D-Lys(Dnp) (middle or C-Terminal)	Other Modification - Fluorescence/Dye Labeling
226	Dab(Dnp) (middle or C-Terminal), 3-[2,4-dinitrophenyl]-L-2,4-diaminobutyic acid	Other Modification - Fluorescence/Dye Labeling
227	Dap(Dnp) (middle or C-Terminal), Dpa, 3-[2,4-dinitrophenyl]-L-2,3-diaminopropionyl	Other Modification - Fluorescence/Dye Labeling
228	Lys(MCA) (middle)	Other Modification - Fluorescence/Dye Labeling
229	Lys(Rhodamine B)	Other Modification - Fluorescence/Dye Labeling
230	{D-2-Cl-Phe}	Other Modification - Phe/Tyr Analogs amino acids
231	{L-2-Cl-Phe}	Other Modification - Phe/Tyr Analogs amino acids
232	{D-3-Cl-Phe}	Other Modification - Phe/Tyr Analogs amino acids
233	{L-3-Cl-Phe}	Other Modification - Phe/Tyr Analogs amino acids
234	{D-4-Cl-Phe}	Other Modification - Phe/Tyr Analogs amino acids
235	{L-4-Cl-Phe}	Other Modification - Phe/Tyr Analogs amino acids
236	{D-3,4-DiCl-Phe}	Other Modification - Phe/Tyr Analogs amino acids
237	{L-3,4-DiCl-Phe}	Other Modification - Phe/Tyr Analogs amino acids
238	{D-4-Br-Phe}	Other Modification - Phe/Tyr Analogs amino acids
239	{L-4-Br-Phe}	Other Modification - Phe/Tyr Analogs amino acids
240	{D-3-F-Phe}	Other Modification - Phe/Tyr Analogs amino acids
241	{L-3-F-Phe}	Other Modification - Phe/Tyr Analogs amino acids

242	{D-4-F-Phe}	Other Modification - Phe/Tyr Analogs amino acids
243	{L-4-F-Phe}	Other Modification - Phe/Tyr Analogs amino acids
244	{D-4-NO2-Phe}	Other Modification - Phe/Tyr Analogs amino acids
245	{L-4-NO2-Phe}	Other Modification - Phe/Tyr Analogs amino acids
246	{D-4-I-Phe}	Other Modification - Phe/Tyr Analogs amino acids
247	{L-4-I-Phe}	Other Modification - Phe/Tyr Analogs amino acids
248	{D-3-CN-Phe}	Other Modification - Phe/Tyr Analogs amino acids
249	{L-3-CN-Phe}	Other Modification - Phe/Tyr Analogs amino acids
250	{D-4-CN-Phe}	Other Modification - Phe/Tyr Analogs amino acids
251	{L-4-CN-Phe}	Other Modification - Phe/Tyr Analogs amino acids
252	{D-2-Me-Phe}	Other Modification - Phe/Tyr Analogs amino acids
253	{L-2-Me-Phe}	Other Modification - Phe/Tyr Analogs amino acids
254	{D-4-Me-Phe}	Other Modification - Phe/Tyr Analogs amino acids
255	{L-4-Me-Phe}	Other Modification - Phe/Tyr Analogs amino acids
256	{D-4-NH2-Phe}	Other Modification - Phe/Tyr Analogs amino acids
257	{L-4-NH2-Phe}	Other Modification - Phe/Tyr Analogs amino acids
258	{D-3-Cl-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
259	{L-3-Cl-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
260	{D-3,5-DiCl-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
261	{L-3,5-DiCl-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
262	{D-3,5-DiBr-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
263	{L-3,5-DiBr-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
264	{D-3-I-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
265	{L-3-I-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
266	{D-3,5-DiI-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
267	{L-3,5-DiI-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
268	{D-3-NO2-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
269	{L-3-NO2-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
270	{D-3,5-DiNO2-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
271	{L-3,5-DiNO2-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
272	{L-3-F-Tyr}	Other Modification - Phe/Tyr Analogs amino acids
273	{Har}	Other Modification - Homo amino acids
274	{D-Har}	Other Modification - Homo amino acids
275	{HomoCit}	Other Modification - Homo amino acids
276	{D-HomoCit}	Other Modification - Homo amino acids
277	{HomoLeu}	Other Modification - Homo amino acids
278	{HomoPro}	Other Modification - Homo amino acids
279	{D-HomoPro}	Other Modification - Homo amino acids
280	{beta-Homolle}	Other Modification - Homo amino acids
281	{beta-HomoLeu}	Other Modification - Homo amino acids
282	{beta-HomoMet}	Other Modification - Homo amino acids

283	homotyr	Other Modification - Homo amino acids
284	{beta-HomoPro}	Other Modification - Homo amino acids
285	{beta-HomoVal}	Other Modification - Homo amino acids
286	{Lys(DABCYL)}	Other Modification - Quenched fluorescent peptides
287	{Lys(Abz)}	Other Modification - Quenched fluorescent peptides
288	Lys(Maleimide)	Other Modification - MAPS and Carrier Complex
289	Lys(Mpa)	Other Modification - MAPS and Carrier Complex
290	Lys(Pra)	Other Modification - MAPS and Carrier Complex
291	Lys(Suc)	Other Modification - MAPS and Carrier Complex
292	Lys(glutaryl)	Other Modification - MAPS and Carrier Complex
293	Lys(pGlu)	Other Modification - MAPS and Carrier Complex
294	Lys(For)	Other Modification - MAPS and Carrier Complex
295	Lys(2-Br-Ac)	Other Modification - MAPS and Carrier Complex
296	Lys(Butanoyl)	Other Modification - MAPS and Carrier Complex
297	Lys(Crotonyl)	Other Modification - MAPS and Carrier Complex
298	Lys(octenyl)	Other Modification - MAPS and Carrier Complex
299	lys(Ma)	Other Modification - MAPS and Carrier Complex
300	Lys(Pal)	Other Modification - MAPS and Carrier Complex
301	Lys(Oleic Acid)	Other Modification - MAPS and Carrier Complex
302	Lys(Acryl)	Other Modification - MAPS and Carrier Complex
303	Lys(alkine)	Other Modification - MAPS and Carrier Complex
304	Lys(Alloc)	Other Modification - MAPS and Carrier Complex
305	Lys(Aoa)	Other Modification - MAPS and Carrier Complex
306	Lys(cyclopropanecarboxyl)	Other Modification - MAPS and Carrier Complex
307	{Lys(3,5-diiodo-4-hydroxybenzoyl)}	Other Modification - MAPS and Carrier Complex
308	Lys(Methacryl)	Other Modification - MAPS and Carrier Complex
309	Lys(propargyl)	Other Modification - MAPS and Carrier Complex
310	Lys(propionyl)	Other Modification - MAPS and Carrier Complex
311	Lys(Pyruvoyl)	Other Modification - MAPS and Carrier Complex
312	{Lys(Me)}	Other Modification - Methyl amino acids
313	{Lys(Me2)}	Other Modification - Methyl amino acids
314	{Lys(Me3)}	Other Modification - Methyl amino acids
315	{N-Me-Ala}	Other Modification - N-Methyl amino acids
316	{N-Me-Phe}	Other Modification - N-Methyl amino acids
317	{N-Me-Leu}	Other Modification - N-Methyl amino acids
318	{N-Me-Ile}	Other Modification - N-Methyl amino acids
319	{N-Me-Val}	Other Modification - N-Methyl amino acids
320	{N-Me-Met}	Other Modification - N-Methyl amino acids
321	{N-Me-Nle}	Other Modification - N-Methyl amino acids
322	{N-Me-Nva}	Other Modification - N-Methyl amino acids
323	{N-Me-Gly}, Sar	Other Modification - N-Methyl amino acids

324	{N-Me-Ser}	Other Modification - N-Methyl amino acids
325	{N-Me-Tyr}	Other Modification - N-Methyl amino acids
326	{N-Me-Thr}	Other Modification - N-Methyl amino acids
327	{N-Me-Asp}	Other Modification - N-Methyl amino acids
328	{N-Me-Glu}	Other Modification - N-Methyl amino acids
329	N-Me-beta-Ala	Other Modification - N-Methyl amino acids
330	{D-pSer}	Other Modification - Phosphorylation
331	{D-pTyr}	Other Modification - Phosphorylation
332	{D-pThr}	Other Modification - Phosphorylation