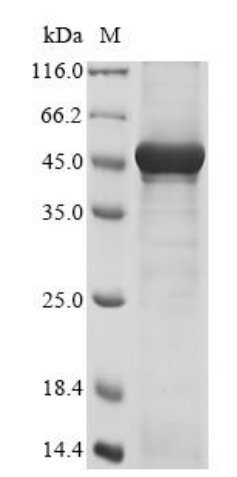


## Recombinant Human Elongation factor Tu, mitochondrial(TUFM)

Catalog Number: RPC22192

<b>Product Name</b>	Recombinant Human Elongation factor Tu, mitochondrial(TUFM)
<b>Catalog Number</b>	RPC22192
<b>Expression host</b>	<i>E.coli</i>
<b>Product Info</b>	N-terminal 6xHis-tagged
<b>Storage Buffer</b>	10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Relevance</b>	Promotes the GTP-dependent binding of aminoacyl-tRNA to the A-site of ribosomes during protein biosynthesis. Plays also a role in the regulation of autophagy and innate immunity. Recruits ATG5-ATG12 and NLRX1 at mitochondria and serves as a checkpoint of the RIG-I/DDX58-MAVS pathway. In turn, inhibits RLR-mediated type I interferon while promoting autophagy.
<b>AA sequence</b>	AVEAKKTYVRDKPHVNVGTIGHVDHGKTTLTAAITKILAEGGGAKFKKYE EIDNAPEERARGITINAAHVEYSTAARHYAHTDCPGHADYVKNMITGTAPL DGCILVVAANDGMPQTREHLLARQIGVEHVVVVYVVKADAVQDSEMVE LVELEIRELLTEFGYKGEETPVIVGSALCALEGRDPELGLKSVQKLLDAVDT YIPVPARDLEKPFLLPVEAVYSVPGRGTVVTGTLERGLKKGDECELLGHSK NIRTVVVTGIEMFHKSLERAEGDNLGALVRGLKREDLRRGLVMVKPGSIKP HQKVEAQVYILSKEEGGRHKPFVSHFMPVMFSLTWDMACRIILPPEKELAM PGEDLKFNLILRQPMILEKGQRFTLRDGNRTIGTGLVTNTLAMTEEEKNIKW G
<b>References</b>	"The Matrix Protein of Human Parainfluenza Virus Type 3 Induces Mitophagy that Suppresses Interferon Responses." Ding B., Zhang L., Li Z., Zhong Y., Tang Q., Qin Y., Chen M. Cell Host Microbe 21:538-547(2017)

## Certificate of Analysis

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<b>Catalog Number</b>	RPC22192	
<b>Expression host</b>	<i>E.coli</i>	
<b>Product Info</b>	N-terminal 6xHis-tagged	
<b>Storage Buffer</b>	10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol	
<b>Batch Number</b>	YA03332b1g5	
<b>Nature</b>	Human TUFM-(AA 44-452)- <b>P49411</b> -Full Length of Mature Protein	
<b>Purification</b>	Affinity purified using IMAC	
<b>Recommended Storage</b>	Short term	2 to 8 °C, one week from the date of receipt
	Long term	-20 to -80 °C, six months from the date of receipt
<b>Form</b>	Liquid	
<b>Date of detection</b>	2021.02.01	
<b>Test Items</b>	<b>Specifications</b>	<b>Results</b>
<b>Appearance</b>	Clear Solution	pass
<b>Concentration</b>	0.1-5 mg/ml, by the Bradford Method.	0.5 mg/ml
<b>Purity</b>	≥85%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.	
<b>Molecular Weight</b>	Predicted band size: 49 kDa	

<b>Electrophoretic parameters</b>	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
<b>Aseptic Processing</b>	Not done
<b>Endotoxin Level</b>	Untreated
<b>Activity</b>	Not tested
<b>Conclusion</b>	pass