

Recombinant Human TTPA Protein, His-SUMO-tagged

Cat. No. TTPA-3400H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TTPA protein(NP_000361.1)(1-278aa) was expressed in E.coli with two N-terminal tag, His tag and SUMO tag.
Species	Human
Source	E.coli
ProteinLength	1-278aa
Description	This gene encodes a soluble protein that binds alpha-trocopherol, a form of vitamin E, with high selectivity and affinity. This protein plays an important role in regulating vitamin E levels in the body by transporting vitamin E between membrane vesicles and facilitating the secretion of vitamin E from hepatocytes to circulating lipoproteins. Mutations in this gene cause hereditary vitamin E deficiency (ataxia with vitamin E deficiency, AVED) and retinitis pigmentosa.
Form	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Molecular Mass	47.7kDa
AA Sequence	MAEARSQPSAGPQLNALPDHSPLLQPGLAALRRRAREAGVPLAPLPLTDSFLLRFLR ARDFDLDLAWRLLNYYKWRAECPEISADLHPRSIIGLLKAGYHGVLRSDPTGSKV

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LIYRIAHWDPKVFTAYDVFRVSLITSELIVQEVEVETQRNGIKAIFDLEGWQFSAFQITP
SVAKKIAAVLTDSFPLKVRGIHLINEPVIFHAVFSMIKPFLTEKIKERIHMHGNNYKQSL
LQHFPDILPLEYGGEEFSMEDICQEWTFIMKSELYLSSISESIQ

Purity Greater than 90% as determined by SDS-PAGE.

Storage Store at -20°C upon receipt, aliquoting is necessary for multiple use. Avoid repeated freeze-thaw cycles.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name [TTPA alpha tocopherol transfer protein \[Homo sapiens \(human\) \]](#)

Official Symbol [TTPA](#)

Synonyms Alpha-tocopherol transfer protein; Alpha-TTP; AlphaTTP; ATTP; AVED; Tocopherol (alpha) transfer protein (ataxia (Friedreich-like) with vitamin E deficiency); TTP1; TTPA; TTPA_HUMAN

Gene ID [7274](#)

mRNA Refseq [NM_000370.3](#)

Protein Refseq [NP_000361.1](#)

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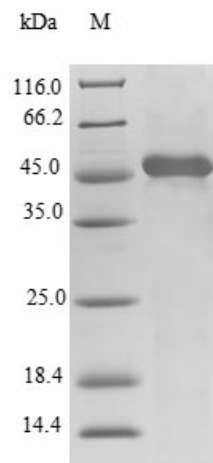
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MIM 600415

UniProt ID P49638

SDS-PAGE of TTPA-
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