

Recombinant Full Length Human TAT Protein, C-Flag-tagged

Cat. No. TAT-999HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TAT Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This nuclear gene encodes a mitochondrial protein tyrosine aminotransferase which is present in the liver and catalyzes the conversion of L-tyrosine into p-hydroxyphenylpyruvate. Mutations in this gene cause tyrosinemia (type II, Richner-Hanhart syndrome), a disorder accompanied by major skin and corneal lesions, with possible cognitive disability. A regulator gene for tyrosine aminotransferase is X-linked.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	50.2 kDa
AA Sequence	MDPYMIQMSSKGNLSSILDVHVNVGGRSSVPGMKMKGRKARWSVRPSDMAKKTFFNP IRAIVDNMKVKPNPN KTMISLSIGDPTVFGNLPTDPEVTQAMKDALDSGKYNGYAPS IGFLSSREEIASYYHCPEAPLEAKDVIL TSGCSQAIDLCLAVLANPGQNILVPRPGFSL YKTLAESMGIEVKLYNLLPEKSWEIDLKQLEYLIDEKTA CLIVNNPSNPCGSVFSKRH LQKILAVAARQCVPILADEIYGDMVFSDCKYEPLATLSTDVPILSCGGLAK RWLVPG WRLGWILIHDRRDIFGNEIRDGLVKLSQRILGPCTIVQGALKSILCRTPGEFYHNTLSF LKSNA DLCYGALAAIPGLRPVRPSGAMYLVMGIEMEHFPEFENDVEFTERLVAEQS

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	VHCLPATCFEYPNFIRVVI TVPEVMMLEACSRIQEFCEQHYHCAEGSQEECDKTRTRPLEQKLISEEDLAANDILD YKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS
Protein Pathways	Cysteine and methionine metabolism, Metabolic pathways, Phenylalanine, tyrosine and tryptophan biosynthesis, Phenylalanine metabolism, Tyrosine metabolism, Ubiquinone and other terpenoid-quinone biosynthesis
Full Length	Full L.

GENE INFORMATION

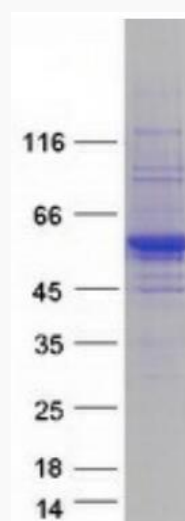
Gene Name	TAT tyrosine aminotransferase [Homo sapiens (human)]
Official Symbol	TAT
Synonyms	tyrosine aminotransferase; tyrosine aminotransferase, cytosolic

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Gene ID	6898
mRNA Refseq	NM_000353.3
Protein Refseq	NP_000344.1
MIM	613018
UniProt ID	P17735



Coomassie blue staining of purified TAT protein.