

Recombinant Human TPST2 protein, His-tagged

Cat. No. TPST2-52H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TPST2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	TPST2, also known as protein-tyrosine sulfotransferase 2, is the enzyme that catalyzes the sulfation reaction of protein tyrosines, a post-translational modification of proteins. This protein is a type II integral membrane protein found in the Golgi body. Compared to TPST1, TPST2 has similar tissue distribution and overlapping substrate specificity. In contrast to TPST1 ^{-/-} males with normal fertility in mice, TPST2 ^{-/-} males are infertile due to severe defects in sperm motility.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	40.4kDa (361aa)40-57KDa (SDS-PAGE under reducing conditions.)
AA Sequence	ADPQQVLECR AVLAGLRSPR GAMRPEQEEL VMVGTDNHVEY RYGKAMPLIF VGGVPRSGTT LMRAMLD AHP EVRCGEETRI IPRVLAMRQAWSKSGREKLR LDEAGVTDEV LDAAMQAFIL EVIAKHGEPA RVLCNKDPFT LKSSVYLSRL FPNSKFLLMV RDGRASVHSM ITRKVTIAGFDLSSYRDCLT KWNKAIEVMY AQCMEVGKEK CLPVYYEQLV LHPRRSLKLI LDFLGIAWSD AVLHHEDLIG KPGGVSLSKI ERSTDQVIKPVNLEALSKWT GHIPGDVVRD MAQIAPMLAQ LGYPDYPANPP NYGNPDPFVI NNTQRVLKGD YKTPANLKG Y FQVNQNSTSS

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	HLGSSHHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	TPST2 tyrosylprotein sulfotransferase 2 [Homo sapiens]
Official Symbol	TPST2
Synonyms	TPST2; tyrosylprotein sulfotransferase 2; TPST-2
Gene ID	8459
mRNA Refseq	NM_001008566
Protein Refseq	NP_001008566
MIM	603126
UniProt ID	O60704
Chromosome Location	22q12.1

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Function

protein-tyrosine sulfotransferase activity; transferase activity;

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