

Product information

TPST2, 26-377aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3332

Full name: Protein-tyrosine sulfotransferase 2

NCBI Accession No.: NP_001008566

Synonyms: TANGO13B

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. Recombinant human TPST2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 40.4kDa (361 aa)

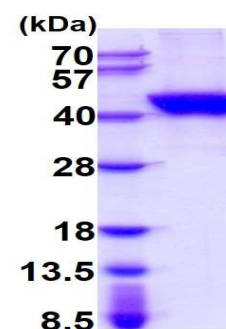
40-57KDa (SDS-PAGE under reducing conditions.)

Predicted N terminal: Ala

Purity: > 95% by SDS – PAGE.

Concentration: 0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

Sequences of amino acids:

ADPQQVLECR AVLAGLRSPR GAMRPEQEEL VMVGTNHVEY RYGKAMPLIF VGGVPRSGTT LMRAMLDAHP EVRCGEETRI IPRVLAMRQA
WSKSGREKLR LDEAGVTDEV LDAAMQAFIL EVIAKHGEPA RVLCNKDPFT LKSSVYLSRL FPNSKFLLMV RDGRASVHSM ITRKVTIAGF
DLSSYRDCLT KWNKAIEVMY AQCMEVGKEK CLPVYYEQLV LHPRRSLKLI LDFLGIAWSD AVLHHEDLIG KPGGVSLSKI ERSTDQVIKP
VNLEALSKWT GHIPGDVVRD MAQIAPMLAQ LGYDPYANPP NYGNPDPFVI NNTQRVLKGD YKTPANLKGY FQVNQNSTSS HLGSSHHHH
H

General references:

Danan LM., *et al.* (2008). *J Am Soc Mass Spectrom.* 19(10):1459-1466.

Kehoe J.W. and Bertozzi C.R. (2000) *Chemistry & Biology.* 7:57-61.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.