

Product information

TPST1, 26-370aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3331

Full name: Protein-tyrosine sulfotransferase 1

NCBI Accession No.: NP_003587

Synonyms: TANGO13A

Description: TPST1, also known as protein-tyrosine sulfotransferase 1, is the enzyme that catalyzes the sulfation reaction of protein tyrosines, a post-translational modification of proteins. It utilizes 3'-Phosphoadenosine-5'-phosphosulfate (PAPS) as the sulfonate donor and binds proteins with target tyrosine residues to eventually form the tyrosine O-sulfate ester group and the desulfonated 3'-phosphoadenosine-5'-phosphate (PAP). Recombinant human TPST1, 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.

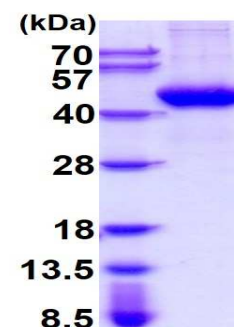
Molecular Weight: 40.6kDa (354aa)
40-57KDa (SDS-PAGE under reducing conditions.)

Predicted N terminal: Ala

Purity: > 90% 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:

ADPQHAMECH HRIEERSQPV KLESTRTTVR TGLDLKANKT FAYHKDMP LI FIGGVPRSGT TLMRAMLDAH PDIRCGEETR VIPRILALKQ
MWSRSSKEKI RLDEAGVTDE VLDSAMQAFL LEIIVKHGEP APYLCNKDPF ALKSLTYLSR LFPNAKFLLM VRDGRASVHS MISRKVTIAG
FDLNSYRDCL TKWNRAIETM YNQCMEVG YK KCMLVHYEQL VLHPERWMRT LLKFLQIPWN HSVLHHEEMI GKAGGVSLSK VERSTDQVIK
PVNVGALSKW VGKIPDPVLQ DMAVIAPMLA KLGYPYANP PNYGKDPKI IENTRRVYKG EFQLPDFLKE KPQTEQVEHH HHHH

General references:

Ouyang Y.B., *et al.* (1998) *Proc Natl Acad Sci USA*. 95:2896-2901.

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

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.