

TPST1, 26-370aa, Human, His tag, Baculovirus

Cat.NO.: TP04292

3th Edition

Synonyms:Protein-tyrosine sulfotransferase 1, 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.)

Sequences:

ADPQHAMECHHRIEERSQPVKLESTRTTVRTGLDLKANKTFAYHKDMPLIFIGGVPRSGTTLMRAMLD AHPDIRCG
EETRVIPRILALKQMWSRSSKEKIRLDEAGVTDEVLD SAMQAFLEIIIVKHGEPAPYLCNKDPFALKSLTYLSR LFPNA
KFLLMVRDGRASVHSMISRKVTIAGFDLNSYRDCLTKWNRAIETMYNQCM EVGYKKCMLVHYEQLVLH PERWMRT
LLKFLQIPWNH SVLHHEEMIGKAGGVSLSKVERSTDQVIKPVNVGALS KWVVGKIPPDVLQDMAVIAPMLAKLGYDPY
ANPPNYGKPD PKIIENTRRVYKGEFQLPDFLKEKPQTEQVEHHHHHH

Purity:> 95% by HPLC

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

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

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.