
Product Data Sheet

Product Name: TPST1 Human

Cat. No.: GP22322

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tyrosylprotein Sulfotransferase 1; EC 2.8.2.20; TPST-1; Transport And Golgi Organization 13 Homolog A (Drosophila); Transport And Golgi Organization 13 Homolog A; Protein-Tyrosine Sulfotransferase 1; Tyrosylprotein Sulfotransferase-1; TANGO13A; TPST1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH TGSMQHAMEC HHRIEERSQP VKLESTRTTV RTGLDLKANK TFAYHKDMPL IFIGGVPRSG TTLMRAMLDA HPDIRCGEET RVIPRILALK QMWSRSSKEK IRLDEAGVTD EVLDSAMQAF LLEIVKHGE PAPYLCNKDP FALKSLTYLS RLFNNAKFL MVRDGRASVH SMISRKVTIA GFDLNSYRDC LTKWNRAIET MYNQCMVEGY KKCMLVHYEQ LVLHPERWMR TLLKFLQIPW NHSVLHHEEM IGKAGGVSL S KVERSTDQVI KPVNVGALSK WVGKIPDVL QDMAVIAPML AKLGYDPYAN PPNYGKPPDK IENTRRVYK GEFQLPDFLK EKPQTEQVE.		
Formulation	TPST1 protein solution (1mg/ml) containing 20mM Tris-HCl (pH 8.0) and 10% glycerol.		

Introduction

Tyrosylprotein Sulfotransferase 1, also known as TPST1 is the enzyme which catalyzes the sulfation reaction of protein tyrosines, a post-translational modification of proteins. TPST1 belongs to the protein sulfotransferase family. In addition, TPST1 utilizes 3'-Phosphoadenosine-5'-phosphosulfate (PAPS) as the sulfonate donor and also binds proteins with target tyrosine residues to eventually form the tyrosine O-sulfate ester group in addition to the desulfonated 3'-phosphoadenosine-5'-phosphate.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TPST1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 369 amino acids (26-370 a.a) and having a molecular mass of 42kDa. TPST1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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