Product Data Sheet

Product Name:	TPST1 Human, sf9
Cat. No.:	GP22323
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Phycical 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 GolgiOrganization 13 Homolog A; Tyrosylprotein Sulfotransferase-1; TANGO13A.		
Amino Acid Sequence	ADPQHAMECH HRIEERSQPV KLESTRTTVR TGLDLKANKT FAYHKDMPLI FIGGVPRSGT TLMRAMLDAH PDIRCGEETR VIPRILALKQ MWSRSSKEKI RLDEAGVTDE VLDSAMQAFL LEIIVKHGEP APYLCNKDPF ALKSLTYLSR LFPNAKFLLM VRDGRASVHS MISRKVTIAG FDLNSYRDCL TKWNRAIETM YNQCMEVGYK KCMLVHYEQL VLHPERWMRT LLKFLQIPWN HSVLHHEEMI GKAGGVSLSK VERSTDQVIK PVNVGALSKW VGKIPPDVLQ DMAVIAPMLA KLGYDPYANP PNYGKPDPKI IENTRRVYKG EFQLPDFLKE KPQTEQVEHH HHHH.		
Formulation	TPST1protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and10% 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 3бп-phosphoadenosine-5бп-phosphate.

Stability

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

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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 produced in Sf9 Baculovirus cells is a single,glycosylated polypeptide chain containing 354 amino acids (26-370 a.a.) andhaving a molecular mass of 40.6kDa (Migrates at 40-57kDa on SDS-PAGE underreducing conditions).

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