Datasheet for ABIN7317601

TPST1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	TPST1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TPST1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human TPST1 Protein (His Tag)
Sequence:	Gln 26-Glu 370
Characteristics:	A DNA sequence encoding the human TPST1 (NP_003587.1) extracellular domain (Gln 26-Glu 370) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	TPST1
Alternative Name:	TPST1 (TPST1 Products)
Background:	Background: Protein-tyrosine sulfotransferase 1, also known as Tyrosylprotein sulfotransferase 1 and TPST1, is a single-pass type I I membrane protein which belongs to the protein sulfotransferase family. Tyrosine O-sulfation is a common posttranslational modification of

Target Details

	proteins in all multicellular organisms. This reaction is mediated by a Golgi enzyme activity called tyrosylprotein sulfotransferase (TPST) that catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate to tyrosine residues within acidic motifs of polypeptides. Tyrosine O-sulfation has been shown to be important in protein-protein interactions in several systems. Tyrosine sulfation is mediated by one of two Golgi isoenzymes, called tyrosylprotein sulfotransferases (TPST-1 and TPST-2). A relatively small number of proteins are known to undergo tyrosine sulfation, including certain adhesion molecules, G-protein-coupled receptors, coagulation factors, serpins, extracellular matrix proteins, and hormones. TPST1 is a human tyrosylprotein sulfotransferase that uses 3'phosphoadenosine-5'phosphosulfate (PAPS) to transfer the sulfate moiety to proteins predominantly designated for secretion. TPST1 bears N-linked glycosyl residues exclusively at position Asn60 and Asn262. TPST1 and TPST2 have distinct biological roles that may reflect differences in their macromolecular substrate specificity. Synonym: TANGO13A
Molecular Weight:	41.7 kDa
NCBI Accession:	NP_003587

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.