

**TPST2, 26-377aa, Human, His tag, Baculovirus**

**Cat.NO.: TP04294**

3th Edition

**Synonyms:**Protein-tyrosine sulfotransferase 2, TANGO13B

**Description:**TPST2, also known as protein-tyrosine sulfotransferase 2, is the enzyme that catalyzes the sulfation reaction of protein tyrosines, a post-translational modification of proteins. This protein is a type II integral membrane protein found in the Golgi body. Compared to TPST1, TPST2 has similar tissue distribution and overlapping substrate specificity. In contrast to TPST1<sup>-/-</sup> males with normal fertility in mice, TPST2<sup>-/-</sup> males are infertile due to severe defects in sperm motility. Recombinant human TPST2, 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:**40.4kDa (361aa), 40-57kDa (SDS-PAGE under reducing conditions.)

**Sequences:**

ADPQQVLECRAVLAGLRSPRGAMRPEQEELVMVGTNHVEYRYGKAMPLIFVGGVPRSGTTLMRAMLDHAHPEVRC  
GEETRIIPRVLAMRQAWKSGREKLRLDEAGVTDEVLDAAAMQAFILEVIAKHGEPARVLCNKDPFTLKSSVYLSRLF  
PNSKFLMVRDGRASVHSMITRKVTIAGFDLSSYRDCLTKWNKAIEVMYAQCMEVGKEKCLPVYYEQLVLHPRRSL  
KLILDFLGIAWSDAVLHHEDLIGKPGGVSLSKIERSTDQVIKPVNLEALSKWTGHIPGDVVRDMAQIAPMLAQLGYDP  
YANPPNYGNPDPFVINNTQRVLKGDYKTPANLKG YFQVNQNSTSSHLGSSHHHHHH

**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.