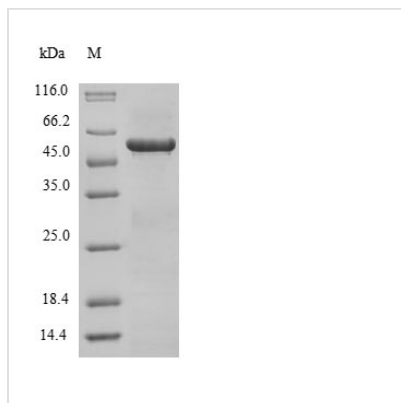




Recombinant Human Tropomyosin alpha-3 chain (TPM3)

Product Code	CSB-EP024106HU
Relevance	Binds to actin filaments in muscle and non-muscle cells. Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments.
Abbreviation	Recombinant Human TPM3 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P06753
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MEAIKKKMQLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKG TEDELDKYSEALKDAQEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAQERL ATALQKLEEAKEKADESERGMKVIENRALKDEEKMELQEIQLKKEAKHIAEEADR KYEEVARKLVIIIEGDLERTEERAELAESKCSLEEEELKNVTNNLKSLEAQAEKY SQKEDKYEEEIKILTDKLKEAETRAEFAERSVAKLEKTIDDLEDELYAQKLKYKAI SEELDHALNDMTSI
Research Area	Signal Transduction
Source	E.coli
Target Names	TPM3
Protein Names	Gamma-tropomyosin Tropomyosin-3 Tropomyosin-5
Expression Region	2-285aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	59.8kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Human TPM3 protein is produced by constructing the recombinant plasmid encoding the Human TPM3 protein (2-285aa), transforming recombinant plasmid into e.coli cells, screening the positive e.coli cells and culturing them, and inducing the protein expression. The protein is equipped with a N-terminal GST tag. Following expression, the recombinant TPM3 protein is isolated and purified from the cell lysate using affinity purification. Denaturing SDS-PAGE is then employed to resolve the resulting recombinant Human TPM3 protein. Its purity is greater than 85%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.