





## Recombinant Human Tropomyosin alpha-3 chain (TPM3)

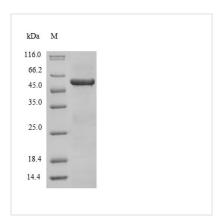
| Binds to actin filaments in muscle and non-muscle cells. Plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon. In non-muscle cells is implicated in stabilizing cytoskeleton actin filaments.  Abbreviation  Recombinant Human TPM3 protein  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. The shelf life of lyophilized form is 12 months at -20°C/-80°C.  Uniprot No. P06753  Product Type  Recombinant Protein  Homo sapiens (Human)  Greater than 85% as determined by SDS-PAGE.  MEAIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKG TEDELDKYSEALKDAQEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADR KYEEVARKUIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKY SQKEDKYEEEIKILTDKLKEAETRAEFAERSVAKLEKTIDDLEDELYAQKLKYKAI SEELDHALNDMTSI  Research Area  Signal Transduction  Source  E.coli  Target Names  TPM3  Protein Names  Gamma-tropomyosin Tropomyosin-3 Tropomyosin-5  Expression Region  Notes  Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  N-terminal GST-tagged  Mol. Weight  Full Length of Mature Protein   |                      |  |
|--|----------------------|--|
| 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  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 -2 | <b>Product Code</b>  | CSB-EP024106HU   |
| 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 month | Relevance            | 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 |
| 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.  Product Type Recombinant Protein  Homo sapiens (Human)  Purity Greater than 85% as determined by SDS-PAGE.  Sequence MEAIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMOKKLKG TEDELDKYSEALKDAOEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAOERL ATALQKLEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADR KYEEVARKLVIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKY SQKEDKYEEIKILTDKLKEAETRAEFAERSVAKLEKTIDDLEDELYAQKLKYKAI 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 Full Length of Mature Protein  | Abbreviation         | Recombinant Human TPM3 protein   |
| Product Type Recombinant Protein  Immunogen Species Homo sapiens (Human)  Purity Greater than 85% as determined by SDS-PAGE.  Sequence MEAIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKG TEDELDKYSEALKDAQEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAQERL ATALQKLEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADR KYEEVARKLVIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKY 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  | Storage              | 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   |
| Homo sapiens (Human)  Purity Greater than 85% as determined by SDS-PAGE.  MEAIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKG TEDELDKYSEALKDAQEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAQERL ATALQKLEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADR KYEEVARKLVIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKY SQKEDKYEEIKILTDKLKEAETRAEFAERSVAKLEKTIDDLEDELYAQKLKYKAI 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  | Uniprot No.          | P06753   |
| Purity Greater than 85% as determined by SDS-PAGE.  MEAIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKG TEDELDKYSEALKDAQEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAQERL ATALQKLEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADR KYEEVARKLVIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKY SQKEDKYEEEIKILTDKLKEAETRAEFAERSVAKLEKTIDDLEDELYAQKLKYKAI SEELDHALNDMTSI  Research Area Signal Transduction  Bource 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   | <b>Product Type</b>  | Recombinant Protein  |
| MEAIKKKMQMLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKG TEDELDKYSEALKDAQEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAQERL ATALQKLEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADR KYEEVARKLVIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKY 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   | Immunogen Species    | Homo sapiens (Human)   |
| TEDELDKYSEALKDAQEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAQERL ATALQKLEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADR KYEEVARKLVIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKY 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  | Purity               | Greater than 85% as determined by SDS-PAGE.  |
| Fource E.coli  Target Names TPM3  Protein Names Gamma-tropomyosin Tropomyosin-3 Tropomyosin-5  Expression Region 2-285aa  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   | Sequence             | TEDELDKYSEALKDAQEKLELAEKKAADAEAEVASLNRRIQLVEEELDRAQERL<br>ATALQKLEEAEKAADESERGMKVIENRALKDEEKMELQEIQLKEAKHIAEEADR<br>KYEEVARKLVIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKY<br>SQKEDKYEEEIKILTDKLKEAETRAEFAERSVAKLEKTIDDLEDELYAQKLKYKAI       |
| Target Names Protein Names Gamma-tropomyosin Tropomyosin-3 Tropomyosin-5  Expression Region 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 Full Length of Mature Protein   | Research Area        | Signal Transduction  |
| Protein Names  Gamma-tropomyosin Tropomyosin-3 Tropomyosin-5  Expression Region  Protein Region  Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  N-terminal GST-tagged  Nol. Weight  Full Length of Mature Protein  | Source               | E.coli   |
| Protein Length  2-285aa  2-285aa  Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  N-terminal GST-tagged  59.8kDa  Full Length of Mature Protein   | Target Names         | TPM3   |
| 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  | <b>Protein Names</b> | Gamma-tropomyosin Tropomyosin-3 Tropomyosin-5  |
| 4°C for up to one week.  Tag Info  N-terminal GST-tagged  Mol. Weight  59.8kDa  Protein Length  Full Length of Mature Protein  | Expression Region    | 2-285aa  |
| Mol. Weight 59.8kDa  Protein Length Full Length of Mature Protein  | Notes                |  |
| Protein Length Full Length of Mature Protein   | Tag Info             | N-terminal GST-tagged  |
| •  | Mol. Weight          | 59.8kDa  |
| mage   | 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.