

TPM1 Protein, Human, Recombinant (His)

General Information

Synonyms:	TMSA;tropomyosin 1 (alpha);LVNC9;CMH3;HTM-alpha;CMD1Y;C15orf13;tropomyosin 1 (α); HTM- α
Protein Construction:	A DNA sequence encoding the human TPM1 (NP_000357.3) (Met1-Met284) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	P09493
Molecular Weight:	34.7 kDa (predicted); 35 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, 10% Glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

TPM1, also known as tropomyosin-1, is a member of the tropomyosin family. Members of this family are highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. TPM1

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is one type of alpha-helical chain that forms the predominant tropomyosin of striated muscle. It binds to actin filaments in muscle and non-muscle cells. TPM1 plays a central role, in association with the troponin complex, in the calcium-dependent regulation of vertebrate striated muscle contraction.

Reference

Mogensen J. et al., 1999, Cytogenet Cell Genet. 84 (1-2): 35-6.

Brown H R. et al., 1985, Proc Natl Acad Sci. 82 (8): 2359-63.

Lees-Miller JP. et al., 1992, BioEssays. 13 (9): 429-37.

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