Human TPM1 / Tropomyosin-1 Protein (His Tag)

Catalog Number: **14615-H07E**

General Information

Gene Name Synonym:

C15orf13; CMD1Y; CMH3; HTM-alpha; LVNC9; TMSA

Protein Construction:

A DNA sequence encoding the human TPM1 (NP_000357.3) (Met1-Met284) was expressed with a polyhistide tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: His

Molecular Mass:

The recombinant human TPM1 consists of 299 amino acids and predicts a molecular mass of 34.7 KDa. It migrates as an approximately 35 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 10% Glycerol, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

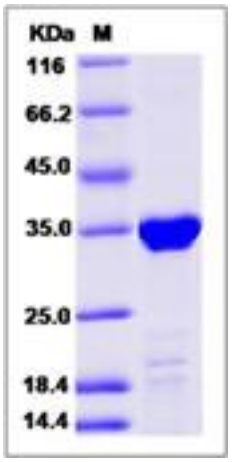
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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 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.

References

1.Mogensen J. et al., 1999, Cytogenet Cell Genet. 84 (1-2): 35-6. 2.Brown H R. et al., 1985, Proc Natl Acad Sci. 82 (8): 2359-63. 3.Lees-Miller JP. et al., 1992, BioEssays. 13 (9): 429-37.