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32-7239: Recombinant Human Tropomyosin a-1 Chain/TPM1 (N-6His)(Discontinued)

Gene : TPM1
Gene ID : 7168
Uniprot ID : P09493

Description

Source: E.coli.
MW :35kD.
Recombinant Human Tropomyosin alpha-1 is produced by our E.coli expression system and the target gene encoding Met1-Met284 is expressed with a 6His tag at the N-terminus. Tropomyosin a-1 Chain (TPM1) is a member of the Tropomyosin family of highly conserved and widely distributed Actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. TPM1 binds to Actin filaments in both muscle and non-muscle cells. It is one type of a-helical chain that forms the predominant Tropomyosin of striated muscle. TPM1 plays a central role in association with the Troponin complex and the Calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with Caldesmon. In non-muscle cells, it is implicated in stabilizing the cytoskeleton Actin filaments. Defects in TPM1 are associated with type 3 Familial Hypertrophic Cardiomyopathy.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM Tris, 1mM DTT, 100mM NaCl, 20% Glycerol, pH 8.0 .
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MGSSHHHHHHSSGLVPRGSHMDAIKKKMQMLKLDKENALDRAEQAEADKKAAEDRSKQLEDELVSLQKKLK GTEDELDKYSEALKDAQEKLELAEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESER GMKVIESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVARKLVIIESDLERAEERAELSEGQVRQLEEQLRIMD QTLKALMAAEDKYSQKEDRYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDLEDELYAQKLKYKAISEELDHA LNDMTSM

Application Note

Endotoxin : Less than 0.1 ng/Ã□Âµg (1 IEU/Ã□Âµg) as determined by LAL test.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.