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Datasheet for ABIN1691997
TPM3 Protein (AA 1-248)

Overview

Quantity:	50 µg
Target:	TPM3
Protein Characteristics:	AA 1-248
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Tropomyosin α -3 Chain/TPM3
Sequence:	MAGITTIEAV KRKIQVLQQQ ADDAEERAER LQREVEGERR AREQAEAEVA SLNRRRIQLVE EELDRAQERL ATALQKLEEA EKAADESERG MKVIENRALK DEEKMELQEI QLKEAKHIAE EADRKYEEVA RKLVIIEGDL ERTEERAELA ESRCREMDEQ IRLMDQNLKC LSAAEEKYSQ KEDKYEEIEK ILTDKLKEAE TRAEFAERSV AKLEKTIDDL EDKCLKCTKEE HLCTQRMLDQ TLLDLNEM
Characteristics:	Recombinant Human Tropomyosin Alpha-3 Chain/TPM3 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Met248) of Human TPM3.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	TPM3
Alternative Name:	TPM3 (TPM3 Products)
Background:	<p>Tropomyosin Alpha-3 Chain (TPM3) is a member of the Tropomyosin family. TPM3 exists as a heterodimer consisting of an alpha and a beta chain. TPM3 plays a central role in association with the Troponin complex and in the calcium dependent regulation of vertebrate striated muscle contraction. Defects in TPM3 are the cause of thyroid papillary carcinoma. Mutations in the TPM3 gene cause autosomal dominant nemaline myopathy, and oncogenes formed by chromosomal translocations involving this locus are linked with cancer.</p> <p>Alternative Names: Tropomyosin Alpha-3 Chain, Gamma-Tropomyosin, Tropomyosin-3, Tropomyosin-5, hTM5, TPM3</p>
Molecular Weight:	29 kDa

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months