Recombinant Human Tropomyosin α-3 Chain/TPM3 Protein

Catalog Number: PKSH033151

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

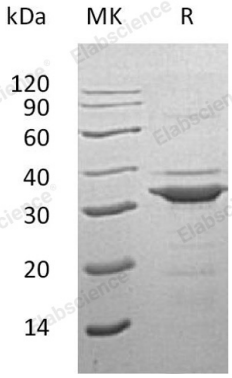
Description

Species	Human
Source	E.coli-derived Human Tropomyosin α-3 Chain/TPM3 protein Met 1-Met248
Calculated MW	29.0 kDa
Observed MW	32 kDa
Accession	P06753-2
Bio-activity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB,150mM NaCl,pH7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

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.