



Recombinant Protein Technical Manual
Recombinant Human Tropomyosin α -3 Chain/TPM3
Protein
RPES1429

Product Data:

Product SKU: RPES1429

Size: 10 μ g

Species: Human

Expression host: E. coli

Uniprot: P06753-2

Protein Information:

Molecular Mass: 29.0 kDa

AP Molecular Mass: 32 kDa

Tag:

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per μ g as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 μ m filtered solution of 20mM PB,150mM NaCl,pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Tropomyosin Alpha-3 Chain; Gamma-Tropomyosin; Tropomyosin-3; Tropomyosin-5; hTM5; TPM3

Immunogen Information:

Sequence: Met 1-Met248

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.