

TPM3-TRKA recombinant protein

TPM3-TRKA Mutant, Active

CATALOG #
AAA73035

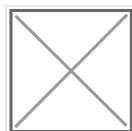
PRODUCT SYNONYMS

TPM3-TRKA; TPM3-TRKA Mutant; Active; TPM3-TRKA recombinant protein

PRODUCT SPECIFICATIONS

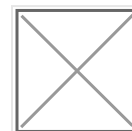
Purity/Purification	>70%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.05ug/ul (varies by lot)
Specific Activity	13 nmol/min/mg
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on dry ice. Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data

The specific activity of TPM3-TRKA was determined to be 13 nmol /min/mg as per activity assay protocol.



Application Data

The purity of TPM3-TRKA was determined to be >70% by densitometry, approx. MW 105kDa.

ADDITIONAL INFORMATION

Related Product Information for TPM3-TRKA recombinant protein	Description: Recombinant human fusion protein TPM3 (1-258)-TRKA (399-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: TRKA is a member of the neurotrophic tyrosine kinase receptor (NTRK) family which is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. TRKA has a crucial role in the development and function of the nociceptive reception system as well as establishment of thermoregulation via sweating in humans (1). The oncogenic rearrangement of 5TPM3-3NTRK1 fusion gene has been found in papillary thyroid carcinomas (2). TRKA is a member of the neurotrophic tyrosine kinase receptor (NTRK) family which is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. TRKA has a crucial role in the development and function of the nociceptive reception system as well as establishment of thermoregulation via sweating in humans (1). The oncogenic rearrangement of 5!TPM3-3!NTRK1 fusion gene has been found in papillary thyroid carcinomas (2).
Product Categories/Family for TPM3-TRKA recombinant protein	Enzymes; Active Kinase Mutants

References	1. Smeyne, R. J. et.al: Severe sensory and sympathetic neuropathies in mice carrying a disrupted Trk/NGF receptor gene. Nature 368: 246-249, 1994. 2. Marta G. B. et.al: A Sequence Analysis of the Genomic Regions Involved in the Rearrangements between TPM3 and NTRK1 Genes Producing TRK Oncogenes in Papillary Thyroid Carcinomas. Genomics, Volume 28, Issue 1, 1 July 1995, Pages 15 -24
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NCBI AND UNIPROT INFORMATION

NCBI GI #	499137514
NCBI GeneID	7170
NCBI Accession #	NM_152263.3
NCBI GenBank Nucleotide #	NM_152263
UniProt Accession #	P06753; P12324; Q2QD06; Q5VU58; Q5VU63; Q5VU66; Q5VU71; Q5VU72; Q8TCG3; Q969Q2; Q9NQH8; D3DV71
Molecular Weight	~105 kDa
NCBI Official Full Name	Homo sapiens tropomyosin 3 (TPM3), transcript variant Tpm3.12, mRNA
NCBI Official Synonym Full Names	tropomyosin 3
NCBI Official Symbol	TPM3
NCBI Official Synonym Symbols	TM3; TM5; TRK; CFTD; NEM1; TM-5; TM30; CAPM1; TM30nm; TPMsk3; hscp30; HEL-189; HEL-S-82p; OK/SW-cl.5
NCBI Protein Information	tropomyosin alpha-3 chain
UniProt Protein Name	Tropomyosin alpha-3 chain
UniProt Gene Name	TPM3
UniProt Synonym Gene Names	hTM5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.