

TPM3-ROS1 recombinant protein

TPM3-ROS1 Mutant, Active

CATALOG # AAA73117	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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PRODUCT SYNONYMS

TPM3-ROS1; TPM3-ROS1 Mutant; Active; TPM3-ROS1 recombinant protein

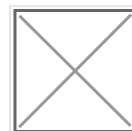
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Sequence Positions	1-258 (TPM3) - 1881-end (ROS1)
Sequence Length	7109
Applicable Applications for TPM3-ROS1 recombinant protein	Kinase Assay
Species	Human
Tag	GST tag
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	Store product at -70 degree 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



Application Data

ADDITIONAL INFORMATION

Related Product Information for TPM3-ROS1 recombinant protein	Description: Recombinant human fusion protein TPM3 (1-258)-ROS1 (1881-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: TPM3 is a member of the tropomyosin family of actin-binding proteins which are dimers of coiled-coil proteins that provide stability to actin filaments and regulate access of other actin-binding proteins. Mutations in TPM3 gene result in autosomal dominant nemaline myopathy and other muscle disorders (1). TPM3 gene locus is involved in translocations with other loci including c-ros oncogene 1 (ROS1) which result in the formation of the TPM3-ROS1 fusion protein that act as an oncogene. TPM3-ROS1 fusion gene product has been detected in lung adenocarcinoma is higher in lung adenocarcinoma with wild-type EGFR (2).
Product Categories/Family for TPM3-ROS1 recombinant protein	Enzymes; Active Kinase Mutants

References	1. Lawlor, M W. et al: Mutations of tropomyosin 3 (TPM3) are common and associated with type 1 myofiber hypotrophy in ongenital fiber type disproportion. Hum Mutat. 2010 Feb;31 (2):176-83. 2. Zhao C. et al: Detecting ALK, ROS1 and RET Fusion Genes in Cell Block Samples. Transl Oncol. 2014 Jun 17;7 (3):363-7.
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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	108 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.