

TFG-TRKA recombinant protein

TFG-TRKA Mutant (TRK-T3), Active

CATALOG # AAA73034	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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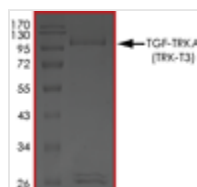
PRODUCT SYNONYMS

TFG-TRKA; TFG-TRKA Mutant (TRK-T3); Active; TFG-TRKA recombinant protein

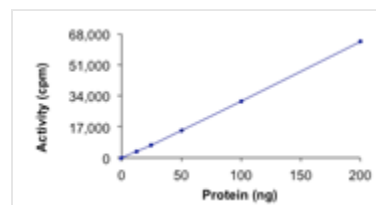
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	1-193 (TFG)-399-end (TRKA)
Sequence Length	1746
Applicable Applications for TFG-TRKA 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 TFG-TRKA recombinant protein	Description: Recombinant human fusion TFG (1-193)-TRKA (399-end) protein was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: TFG-TRKA (TRK-T3) is a chimeric cytoplasmic oncoprotein isolated from a papillary thyroid tumor. This oncoprotein is the consequence of a t (1, 3) translocation juxtaposing the tyrosine kinase domain of the NTRK1 receptor to the N-terminal portion of a protein encoded by TFG (TRK-fused gene), a novel gene first discovered in the rearranged form. TRK-T3 fusion oncoprotein displays a constitutive tyrosine kinase activity resulting in its capability to transform mouse NIH3T3 cells. The TFG portion of TRK-T3 contains a coiled-coil domain most likely responsible for the constitutive, ligand-independent activation of the receptor tyrosine kinase activity through TRK-T3 oligomerization.
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Product Categories/Family for TFG-TRKA recombinant protein	Enzymes; Active Kinase Mutants
References	1. Greco A. et al: The DNA rearrangement that generates the TRK-T3 oncogene involves a novel gene on chromosome 3 whose product has a potential coiled-coil domain. Mol Cell Biol. 15 (11):6118-27, 1995. 2. Greco A, et al. Role of the TFG N-terminus and coiled-coil domain in the transforming activity of the thyroid TRK-T3 oncogene. Oncogene. 12;16 (6):809-16, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	306774086
NCBI GeneID	10342
NCBI Accession #	NM_001195478.1
NCBI GenBank Nucleotide #	NM_001195478
UniProt Accession #	Q92734 ; Q15656 ; Q969I2 ; D3DN49 ; G5E9V1 ; K0J5S8 ; K0J6K2
Molecular Weight	~100 kDa
NCBI Official Full Name	Homo sapiens TRK-fused gene (TFG), transcript variant 3, mRNA
NCBI Official Synonym Full Names	TRK-fused gene
NCBI Official Symbol	TFG
NCBI Official Synonym Symbols	TF6; HMSNP; SPG57; TRKT3
NCBI Protein Information	protein TFG
UniProt Protein Name	Protein TFG
UniProt Gene Name	TFG

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.

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Online datasheet: <https://www.aaabiotech.com/tfg-recombinant-protein-sf9-kinase-assay/73034>