

Recombinant Human NTRK3, GST-His

Cat. No. NTRK3-702H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TRK-C was expressed in <i>Sf9</i> insect cells, C-terminal fragment, amino acids V510-G825, activated, N-terminal GST-HIS6 fusion protein with a 3C cleavage site. MW = 64,870 Da.
Species	Human
Source	Sf9 Cells
Description	TRKC is a member of the TRK family of tyrosine kinase receptors and is the high affinity catalytic receptor for the neurotrophin NT-3 (neurotrophin-3). TRKC mediates the multiple cellular effects of the NT-3 neurotrophic factor, which includes neuronal differentiation and survival. TRKC has been implicated in insulin signaling pathway through interactions with the MUSK protein receptor and the VEGF receptor. Mutations in the TRKC gene have been associated with medulloblastomas, secretory breast carcinomas and other cancers.
Purification	GST-Affinity Chromatography.
Product Identity	TRK-C was confirmed as TRK-C by mass spectroscopy LC-ESI-MS/MS.
Activation	in vitro autoactivation.
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol.

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Specific Activity	35 pmol/μg×min.
Concentration	0.085 μg/μl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
Storage	-80°C. Avoid repeated freeze-thaw cycles!
GENE INFORMATION	
Gene Name	NTRK3 neurotrophic tyrosine kinase, receptor, type 3 [Homo sapiens]
Synonyms	NTRK3; neurotrophic tyrosine kinase, receptor, type 3; TRKC; gp145 (trkC); ETV6-NTRK3 fusion; OTTHUMP00000192915; neurotrophin 3 receptor; tyrosine kinase receptor C; NT-3 growth factor receptor; ETS related protein-neurotrophic receptor tyrosine kinase fusion protein; EC 2.7.10.1
Gene ID	4916
mRNA Refseq	NM_001007156
Protein Refseq	NP_001007157
MIM	191316
UniProt ID	Q16288
Chromosome Location	15q24-q25
Pathway	Neurotrophin signaling pathway

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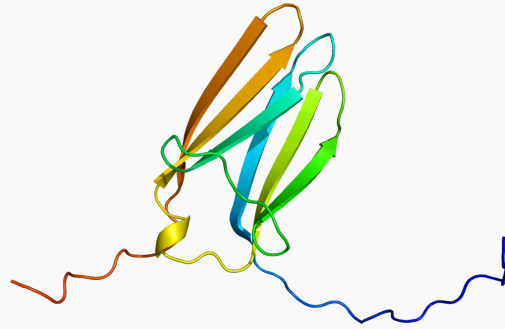
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Function

ATP binding; neurotrophin receptor activity; nucleotide binding; protein binding; transferase activity; transmembrane receptor protein tyrosine kinase activity

PDB rendering based on 1wwc.



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