

Active Recombinant Human NTRK3 Homodimer Protein, His tagged

Cat. No. NTRK3-63H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

TrkC protein dimer contains the TrkC extracellular domain (UniProt# Q16288) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.

Species

Human

Source

HEK293T

ProteinLength

32-429 aa

Description

Human tropomyosin receptor kinase C (TrkC) is part of the family of receptor tyrosine kinases and primarily the receptor for neurotrophin-3 (NT-3). TrkC is also known as neurotrophic receptor tyrosine kinase 3 (NTRK3), NT-3 growth factor receptor, neurotrophic tyrosine kinase receptor type 3, gp145, and GP145-TrkC. TrkC is a Type I transmembrane protein. It contains an extracellular domain with two cysteine-rich clusters (C1 and C2), three leucine-rich 24-residue repeats (LRR1–3), and two immunoglobulin-like domains (Ig1 and Ig2) followed by a transmembrane domain and a cytoplasmic domain. TrkC is a high affinity receptor for NT-3, and ligand binding induces receptor dimerization which is required for trans-autophosphorylation that triggers downstream signaling cascades. TrkC plays a role in many cancers, therefore, a recombinant protein mimicking the dimer conformation can be crucial for cancer therapeutic discovery.

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Molecular Mass	106 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for TrkC-specific antibody and neurotrophin-3 (NT-3) ligand protein binding assays Suggested Applications: SPR & BLI for TrkC-specific antibody and NT-3 protein binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	NTRK3 neurotrophic tyrosine kinase, receptor, type 3 [Homo sapiens (human)]
Official Symbol	NTRK3
Synonyms	NTRK3; neurotrophic tyrosine kinase, receptor, type 3; NT-3 growth factor receptor; TRKC; GP145-TrkC; ETV6-NTRK3 fusion; tyrosine kinase receptor C; ETS related protein-neurotrophic receptor tyrosine kinase fusion protein; gp145(trkC);
Gene ID	4916
mRNA Refseq	NM_001007156
Protein Refseq	NP_001007157

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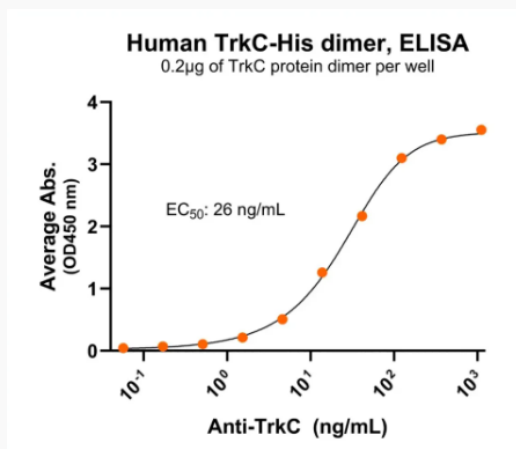
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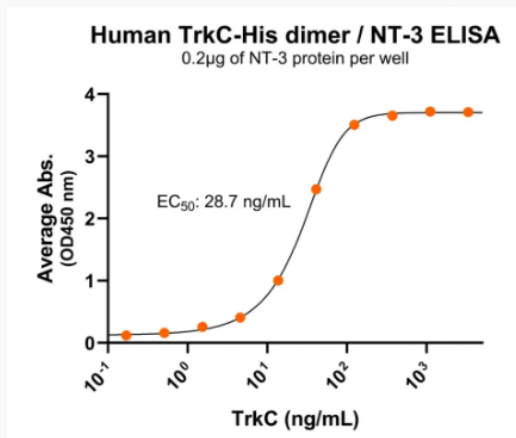
UniProt ID Q16288

Bioactivity-Antibody Binding



Immobilized human TrkC protein dimer, His-tag at 2 µg/mL (100 µL/well) can bind anti-human TrkC monoclonal antibody with half maximal effective concentration (EC₅₀) range of 13-52.1 ng/mL (QC tested).

Bioactivity-Ligand Binding



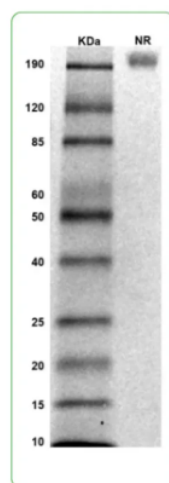
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Immobilized human NT-3 protein at 2 µg/mL (100 µL/well) can bind human TrkC protein dimer, His-tag with half maximal effective concentration (EC₅₀) range of 14.4-57.4 ng/mL (QC tested).

SDS-PAGE and WB



MW: Molecular Weight marker reduced condition NR: TrkC dimer under non-reduced condition

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