

NTRK1 active protein

Recombinant NTRK1 (440-796) protein

CATALOG #
AAA60324

HOST
Baculovirus

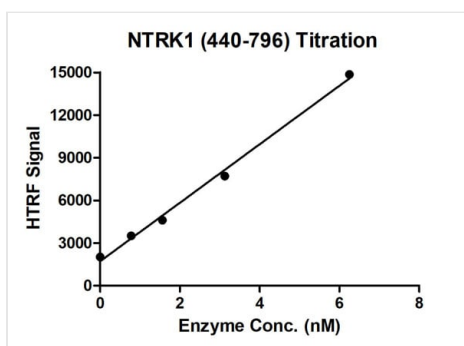
PRODUCT SYNONYMS

NTRK1; Recombinant NTRK1 (440-796) protein; Neurotrophic Receptor Tyrosine Kinase 1; NTRK1 active protein

PRODUCT SPECIFICATIONS

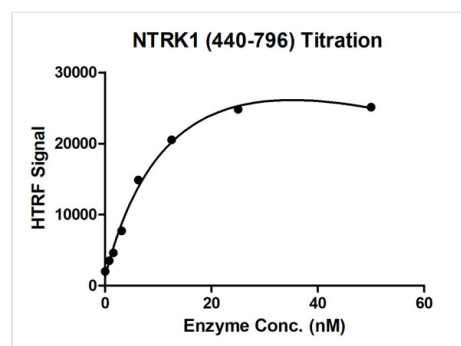
Host	Baculovirus
Purity/Purification	>=90%
Form/Format	Recombinant NTRK1 (440-796) protein is supplied in 25 mM HEPES, NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant NTRK1 (440-796) protein that includes amino acids 440-796 of human NTRK1 protein (accession number NP_002520.2) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag. The molecular weight of the protein is 41.3 kDa.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



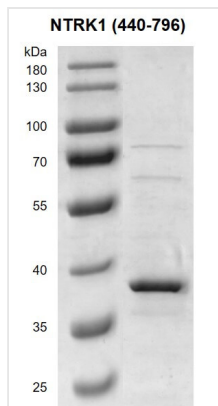
Bioactivity

HTRF assay for NTRK1 (440-796) activity 1 μ M TK substrate was incubated with different concentrations of NTRK1 (440-796) protein in a 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT, and 100 μ M ATP for 1 hour. Then 10 μ l detection reagents containing anti-TK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant NTRK1 protein 10% SDS-PAGE Coomassie staining MW: 41.3 kDa Purity: >= 90%

ADDITIONAL INFORMATION

Related Product Information for NTRK1 active protein	NTRK1 (Neurotrophic Receptor Tyrosine Kinase 1) is a receptor tyrosine kinase that involved in the development and the maturation of the central and peripheral nervous systems through regulation of proliferation, differentiation, and survival of sympathetic and nervous neurons. NTRK1 can also bind and be activated by NTF3/ neurotrophin-3. However, NTF3 only supports axonal extension through NTRK1 but has no effect on neuron survival. High affinity receptor for NGF which is its primary ligand. Upon dimeric NGF ligand-binding, undergoes homodimerization, autophosphorylation and activation (PubMed:1281417). Recruits, phosphorylates and/or activates several downstream effectors including SHC1, FRS2, SH2B1, SH2B2 and PLCG1 that regulate distinct overlapping signaling cascades driving cell survival and differentiation.
Product Categories/Family for NTRK1 active protein	Kinase; Recombinant Proteins

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://stage.aaabiotech.com/baculovirus-active-protein/ntrk1/60324>