

Recombinant Human NGFR Protein, His-tagged

Cat. No. NGFR-106H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human NGFR Protein with His tag was expressed in E. coli.

Species Human

Source E.coli

Description

The p75 neurotrophin receptor (p75NTR), a member of the TNF receptor superfamily, is distinguished by multiple cysteine-rich ligand-binding domains, a single transmembrane sequence and a noncatalytic cytoplasmic domain. p75NTR displays paradoxical functions when acting alone or with other receptor proteins. Working in concert with Trk receptors, p75NTR recognizes neurotrophins and transmits trophic signals into the cell. Both p75NTR and TrkA are required to activate PI3K-Akt signaling, while TrkA can individually activate the MAP kinase pathway. In contrast, p75NTR, possibly through JNK, ensures appropriate apoptosis of injured neurons and improperly targeted neonatal neurons. The p75NTR protein undergoes sequential cleavage similar to APP and Notch. First, α -secretase removes the p75NTR ectodomain, eliminating ligand-mediated signaling. At this point, the membrane-tethered cleavage product can still fine-tune Trk-mediated trophic actions. γ -secretase cleaves within the transmembrane domain to liberate the cytoplasmic tail from its membrane anchor and allow the p75NTR intracellular domain to translocate to the nucleus.

Molecular Mass ~24 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	KEACPTGLYTHSGECCCKACNLGEGVAQPCGANQTVCEPCLDSVTFSDVVSATEPC KPCTECVGLQSMSAPCVEADDAVCRCAYGYYQDETTGRCEACRVCEAGSGLVFSC QDKQNTVCEECPDGTYSDEANHVDPCLPCTVCEDTERQLRECTRWADAECEEIPG RWITRSTPPEGSDSTAPSTQEPEAPPEQDLIASTVAGVVTTVMGSSQPVVTRGTTD N
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Storage Buffer	PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name	NGFR nerve growth factor receptor [Homo sapiens (human)]
Official Symbol	NGFR
Synonyms	NGFR; nerve growth factor receptor; nerve growth factor receptor (TNFR superfamily, member 16); tumor necrosis factor receptor superfamily member 16; CD271; low affinity nerve growth factor receptor; p75NTR; TNFR superfamily; member 16; TNFRSF16; p75 ICD; NGF receptor; TNFR superfamily, member 16; low affinity neurotrophin receptor p75NTR; low-affinity nerve growth factor receptor; p75(NTR); Gp80-LNGFR;
Gene ID	4804

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mRNA Refseq [NM_002507](#)


Protein Refseq [NP_002498](#)

MIM [162010](#)


UniProt ID [P08138](#)

SDS-PAGE



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