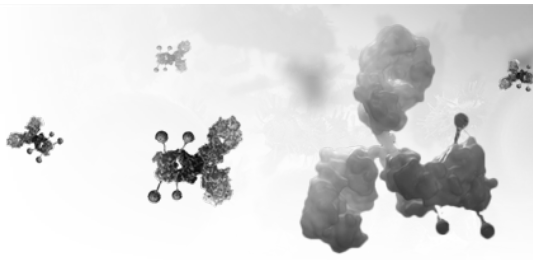

Human NTF3 peptide (DAG339)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	RecombinantHuman NT-3 is a single non-glycosylated polypeptide chain containing 119amino acids and having a molecular weight of 13,606.29 Da, was expressed inE. coli. The sequence of the first five N-terminal amino acids was determinedto be Tyr-Ala-Glu-Hi
Antigen Description	Neurotrophin-3is a protein that in humans is encoded by the NTF3 gene. The protein encodedby this gene, NT-3, is a neurotrophic factor in the NGF (Nerve Growth Factor)family of neurotrophins. It is a protein growth factor which has activity oncertain neurons of the peripheral and central nervous system; it helps tosupport the survival and differentiation of existing neurons, and encouragesthe growth and differentiation of new neurons and synapses. NT-3 was thethird neurotrophic factor to be characterized, after nerve growth factor(NGF) and BDNF (Brain Derived Neurotrophic Factor).
Species	Human
Conjugate	Unconjugated
Applications	The ED50as determined by the dose-dependent induction of choline acetyl transferasein rat basal forebrain primary septal culture was found between 20-50ng/ml.Each laboratory should determine an optimum working titer for use in itsparticular application. O
Format	Purified, Lyophilized Reconstitute using sterile deionized water to a concentration 100µg/ml.Further dilutions can be made in other aqueou buffers.
Concentration	1 mg/ml (OD280nm, E0.1%= 2.165) (prior to lyophilization)
Buffer	Lyophilized fromwater containing no additives
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

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Introduction	The protein encoded by this gene is a member of the neurotrophin family, that controls survival and differentiation of mammalian neurons. This protein is closely related to both nerve growth factor and brain-derived neurotrophic factor. It may be involved in the maintenance of the adult nervous system, and may affect development of neurons in the embryo when it is expressed in human placenta. NTF3-deficient mice generated by gene targeting display severe movement defects of the limbs. The mature peptide of this protein is identical in all mammals examined including human, pig, rat and mouse. [provided by RefSeq, Jul 2008]
Keywords	NTF3; neurotrophin 3; NT3; HDNF; NGF2; NT-3; NGF-2; neurotrophin-3; neurotrophic factor; nerve growth factor 2;

GENE INFORMATION

Entrez Gene ID	4908
UniProt ID	P20783

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