Recombinant Human NTF3

Cat No:HR2R1805

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	NTF3
Gene ID	4908
Accession	P20783
Alternative Name	NT-3, HDNF, Nerve growth factor 2, NGF-2, Neurotrophic factor Recombinant Human Neurotrophin-3 (NTF3)
Species	Human
Source	E. coli
Description	NT-3 is found in neurons of the central nervous system. NT-3 is expressed also in muscles and its expression is down-regulated in denervated muscles. Many human gliomas express and secrete NT-3 into the conditioned medium. Some protein domains of NT-3 are identical with those of NGF and BDNF. NT-3 selectively supports the survival of neuronal cell populations. NT-3 has been shown recently to prevent death of cultured embryonic rat spinal motor neurons at picomolar concentrations. NT-3 has been shown to enhance sprouting of corticospinal tract during development and after adult spinal cord lesion. The activities of NT-3 and BDNF are additive in some systems. The biological activities of NT-3 are mediated by a receptor belonging to the trk family of receptors with intrinsic tyrosine-specific protein kinase activity. NT-3 only binds weakly to the trk receptor which is a high-affinity receptor for NGF.
Functions	The ED(50) was determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures was found to be in the range of 10-50 ng/mL.
Formulation	Recombinant NT-3 was lyophilized from a 0.2 ?m filtered PBS solution pH 7.5.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	14
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature

Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.