

Recombinant Human NTF4

Cat No:HR2R1806

For research use only

Overview

Quantity	10 ?g
Gene Symbol	NTF4
Gene ID	4909
Accession	P34130
Alternative Name	NT-4, Neurotrophin-5, NT-5, Neurotrophic factor 4, NTF5, NTF4 Recombinant Human Neurotrophin-4 (NTF4)
Species	Human
Source	E. coli
Description	Neurotrophins are well-known retrograde signaling molecules that regulate differentiation and cell survival in many central and peripheral neurons. Neurotrophin-4 (NT-4) is the most recently discovered neurotrophic factor in mammals and, functionally, the least well understood. Little is known about the role of NT-4 in supporting the survival of identified classes of sensory neurons. Currently, the only available data are from cell counts of whole sensory ganglia. Mice lacking NT-4 (NT-4/) exhibit a loss of ~50% of the neurons in the nodose-petrosal and geniculate ganglia but no apparent loss of neurons in the dorsal root ganglia.
Functions	The ED(50) was determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures, and was found to be in a range of 10-50 ng/mL.
Formulation	Recombinant NT-4 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.