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DATASHEET

Recombinant human NT-3 protein

Product overview

Name Cat No Biological description	Recombinant human NT-3 protein HB8373 NT-3 is a neurotrophin responsible for promoting development, survival and function of neuron.
	It is closely related to BDNF and NGF.
Species of origin Alternative names Biological action Purity Description	Induces neural stem cell (NSC) differentiation. human NT 3 Human, Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF, NT-3. Activator >97% Neurotrophin involved in neuron development, survival and differentiation

Images



Biological Data

Application notes

 ED_{50} 3.6-5.4µg/ml (determined by the dose-dependent proliferation of C6 cells) Greater than: >

Solubility & Handling

Storage instructions	-20°C
Solubility overview	To make a stock solution, reconstitute in sterile $18M\Omega$ cm water at a concentration > 100µg/ml, which can then be diluted to make a working solution
Handling	 Solutions should be made in sterile deionized water (not less than 100 μg/ml). This solution can then be further diluted with other aqueous solutions. Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C. For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

UniProt ID Sequence (one letter)

Source Appearance Formulation P20783 YAEHKSHRGEYSVCDSESLWVTDKSSAIDIRGHQVTVLGEIKTGNSPVKQYFYETRCKEARPVKNG CRGIDDKHWNSQCKTSQTYVRALTSENNKLVGWRWIRIDTSCVCALSRKIGRT E. Coli. White lyophilized powder (sterile filtered & freeze-dried) Lyophilized from 0.02% TFA

References

Neurotrophin-3 (NT-3) modulates early differentiation of oligodendrocytes in rat brain cortical cultures

Heinrich M *et al* (1999) Glia 28(3) **PubMedID** 10559783

NT-3, like NGF, is required for survival of sympathetic neurons, but not their precursors

Francis N *et al* (1999) Dev Biol 210(2) **PubMedID** 10357900

Early BDNF, NT-3, and NT-4 signaling events

Yuen EC *et al* (1999) Exp Neurol 159(1) **PubMedID** 10486198