Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

Recombinant human NT-3 protein

Product overview

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

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 18MΩcm 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

Sequence (one letter)	YAEHKSHRGEYSVCDSESLWVTDKSSAIDIRGHQVTVLGEIKTGNSPVKQYFYETRCKEARPVKNG CRGIDDKHWNSQCKTSQTYVRALTSENNKLVGWRWIRIDTSCVCALSRKIGRT
Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	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