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DATASHEET

Recombinant mouse NT-3 protein

Product overview

Name	Recombinant mouse NT-3 protein
Cat No	HB9400
Species of origin	mouse
Alternative names	Recombinant Mouse Neurotrophin-3, Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF, NT-3, Neurotrophin-3, Ntf3, Ntf-3, AI316846, AI835689, Nt3.
Purity	>97%
Description	Recombinant mouse Neurotrophin-3 protein

Biological Data

Application notes	The ED_{50} = ~ 1-10 ng/ml (determined by the dose-dependent proliferation of BaF3 cells transfected with TrkB receptor), corresponding to a specific activity of 100,000-1,000,000 units/mg

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

UniProt ID	P20181
Molecular Weight	27.5
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