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 ProNGF protein

Product overview

Name	Recombinant human ProNGF protein
Cat No	HB9354
Biological description	Pro-form of the neurotrophin nerve growth factor (NGF) that is cleaved to release its C-terminal mature form. proNGF binds to TrkA/p75NTR to mediate cell survival and to sortilin/p75NTR to promote apoptosis.
Species of origin	human
Alternative names	Recombinant Human Pro-Nerve Growth Factor, Human Pro-NGF, ProNGF, NGFB.
Purity	>95%
Description	Pro-form of the nerve growth factor (NGF) neurotrophin

Solubility & Handling

Storage instructions	-20°C
Solubility overview	To make a stock solution, reconstitute in 1xPBS to a concentration no less than 100 µg/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	P01138
Molecular Weight	25
Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB and 0.25M NaCl (pH 7.2)

References

Molecular and structural insight into proNGF engagement of p75NTR and sortilin

Feng D *et al* (2010) J Mol Biol 396(4)
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ProNGF: a neurotrophic or an apoptotic molecule?

Fahnestock M *et al* (2004) Prog Brain Res 146
PubMedID 14699959

ProNGF and Neurodegeneration in Alzheimer's Disease

Fahnestock M *et al* (2019) Front Neurosci 13

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