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## DATASHEET

### Recombinant human ProNGF protein

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#### Product overview

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

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#### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	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
<b>Handling</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• 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.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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#### Chemical Data

<b>UniProt ID</b>	P01138
<b>Molecular Weight</b>	25
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB and 0.25M NaCl (pH 7.2)

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#### References

##### Molecular and structural insight into proNGF engagement of p75NTR and sortilin

Feng D *et al* (2010) J Mol Biol 396(4)  
**PubMedID** [20036257](#)

##### ProNGF: a neurotrophic or an apoptotic molecule?

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

