

**Datasheet for 009-001-W07-0010****rHuman Neurotrophin-4 Protein****Overview**

<b>Description:</b>	Human Neurotrophin-4 Recombinant Protein - 009-001-W07-0010
<b>Item No.:</b>	009-001-W07-0010
<b>Size:</b>	10 µg
<b>Origin:</b>	Human
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Neurotrophin-4 (NT-4) is an important member of the nerve growth factor (NGF) family of proteins along with NT-3, BDNF and NGF. Neurotrophins act in a paracrine and/or autocrine manner to control neuronal numbers and dendrite outgrowth. These functions are thought to be communicated by TrkB, a receptor tyrosine kinase that NT-4 shares with BDNF. Recombinant human NT-4 is a non-glycosylated, non-covalently linked homodimer, containing two 131 amino acid chains, with a total molecular weight of 28.1 kDa.
<b>Synonyms:</b>	Neurotrophin 5 (NT-5), Neurotrophic Factor 4
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	NTF4
<b>Purity/Specificity:</b>	Neurotrophin-4 purity was determined to be greater than 97% as determined by HPLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-PAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P34130</a></li></ul>

**Application Details**

<b>Application Note:</b>	Neurotrophin-4 Recombinant Protein is suitable as a control for polyclonal or monoclonal anti-Neurotrophin-4 in immunological assays.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: Proliferation of a neuroblastoma cell line stably expressing TrkB (BR6) ED50 $\leq 20$ ng/mL ( $\geq 5.0 \times 10^4$ units/mg).

## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	0.1mg/ml
<b>Buffer:</b>	0.1% Trifluoroacetic acid
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	10 $\mu$ l (10-100 $\mu$ l)
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Disclaimer

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