

CNTFR alpha Protein, Rat (sf9, His)

Cat. No.:	HY-P76276
Synonyms:	Ciliary neurotrophic factor receptor subunit alpha; CNTFR-alpha
Species:	Rat
Source:	Sf9 insect cells
Accession:	Q08406 (M1-P346)
Gene ID:	313173
Molecular Weight:	Approximately 48 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The CNTFR alpha protein plays a crucial role in binding to ciliary neurotrophic factor (CNTF), with its alpha subunit providing receptor specificity. It forms a heterotrimeric complex with LIFR and IL6ST, contributing to the assembly of a functional receptor. Additionally, CNTFR alpha interacts with the heterodimeric neurotrophic cytokine composed of CLCF1/CLC and CRLF1/CLF-1. Notably, whether in isolation or in conjunction with the CLCF1-CRLF1 heterodimer, CNTFR alpha engages with SORL1, potentially facilitating internalization and lysosomal degradation through this interaction.
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Caution: Product has not been fully validated for medical applications. For research use only.

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