NNT1/CLC Protein, Human (HEK293, Fc)

Cat. No.:	HY-P75942
Synonyms:	Cardiotrophin-like cytokine factor 1; BSF-3; CLCF1; BSF3; CLC; NNT1
Species:	Human
Source:	HEK293
Accession:	Q9UBD9/ NP_037378.1 (L28-F225)
Gene ID:	23529
Molecular Weight:	Approximately 53 kDa

PROPERTIES

AA Sequence	L N R T G D P G P G P S I Q K T Y D L T R Y L E H Q L R S L A G T Y L N Y L G P P F N E P D F N P P R L G A E T L P R A T V D L E V W R S L N D K L R L T Q N Y E A Y S H L L C Y L R G L N R Q A A T A E L R R S L A H F C T S L Q G L L G S I A G V M A A L G Y P L P Q P L P G T E P T W T P G P A H S D F L Q K M D D F W L L K E L Q T W L W R S A K D F N R L K K K M Q P P A A A V T L H L G A H G F
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	In conjunction with CRLF1, the NNT1/CLC protein forms a heterodimeric neurotropic cytokine, likely playing a crucial role in neuronal development. Additionally, NNT1/CLC stimulates B-cells and binds to, activating the ILST/gp130 receptor. It forms a heteromeric complex with the cardiotrophin-like cytokine CRLF1/CLF-1, and this CRLF1-CLCF1 complex serves as a ligand for the ciliary neurotrophic factor receptor/CNTFR. Notably, both the CRLF1-CLCF1 heterodimer and the tripartite signaling complex, composed of CRLF1, CLCF1, and CNTFR, bind to SORL1, with the interaction predominantly mediated by the CRLF1 moiety within the complex. These intricate associations underscore the diverse functions of NNT1/CLC protein in neurodevelopmental processes and immune regulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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