

# Product Data Sheet

## 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				
	LNRTGDPGPG	PSIQKTYDLT	RYLEHQLRSL	AGTYLNYLGP
	PFNEPDFNPP	RLGAETLPRA	TVDLEVWRSL	NDKLRLTQNY
	EAYSHLLCYL	RGLNRQAATA	ELRRSLAHFC	T S L Q G L L G S I
	AGVMAALGYP	LPQPLPGTEP	ТWТРGPAHSD	FLQKMDDFWL
	LKELQTWLWR	SAKDFNRLKK	КМQPPAAAVT	LHLGAHGF
Appearance	Lyophilized powder.			
Formulation	Lyophilized from a 0.2 um	filtered solution of PBS_nH	7 4	
- officiation		intered solution of r b3, pri		
Endotoxin Level	<1 EU/ug. determined by I	AL method.		
	2 20/µg, acconnica ») 1			
Reconsititution	It is not recommended to	reconstitute to a concentra	tion less than 100 μg/mL in d	dH <sub>2</sub> O. For long term stor
	recommended to add a ca	rrier protein (0.1% BSA, 5%	HSA, 10% FBS or 5% Trehalo	ose).
Storage & Stability	Stored at -20°C for 2 years	. After reconstitution, it is st	able at 4°C for 1 week or -20°	°C for longer (with carrier
	recommended to freeze al	liquots at -20°C or -80°C for	extended storage.	<b>U</b> .
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Shipping	Room temperature in con	tinental US; may vary elsew	here.	

### 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.

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

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