

Crlf1 Protein, Mouse (HEK293, His, solution)

Cat. No.:	HY-P79001
Synonyms:	Cytokine receptor-like factor 1; CRLM-3
Species:	Mouse
Source:	HEK293
Accession:	Q9JM58 (G40-G425)
Gene ID:	12931
Molecular Weight:	Approximately 75.0 kDa

PROPERTIES

AA Sequence	<p> GAHTAVIS PQ DPTLLIGSSL QATCSIHGDT PGATAEGLYW TLNGRRLPSE LSRLLNTSTL ALALANLNGS RQQSGDNLVC HARDGSILAG SCLYVGLPPE KPFNISCWSR NMKDLTCRWT PGAHGETFLH TNYSLKYKLR WYGQDNTCEE YHTVGPHSCH IPKDLALFTP YEIWVEATNR LGSARSDVLT LDVLDVVTDD PPPDVHVSRV GGLEDQLSVR WVSPPALKDF LFQAKYQIRY RVEDSDWKV VDDVSNQTS RLAGLKPGTV YFVQVRCNPF GIYGSKKAGI WSEWSHPTAA STPRSERPGP GGGVCEPRGG EPSSGPVRE LKQFLGWLKK HAYCSNLSFR LYDQWRAWMQ KSHKTRNQDE GILPSGRRGA ARGPAG </p>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>In conjunction with CLCF1, the Crlf1 protein forms a heterodimeric neurotropic cytokine crucial for neuronal development. It plays a vital role in the initiation and/or maintenance of suckling in neonatal mice and is implicated in potential regulatory functions within the immune system. Crlf1 protein exhibits the formation of covalent di- and tetramers, and it engages in the</p>
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creation of a heteromeric complex with cardiotrophin-like cytokine CLCF1/CLC. This CRLF1-CLCF1 complex serves as a ligand for the ciliary neurotrophic factor receptor/CNTFR. Notably, the CRLF1-CLCF1 heterodimer, along with the tripartite signaling complex formed by CRLF1, CLCF1, and CNTFR, binds SORL1, where the interaction is predominantly mediated by the CRLF1 moiety within this complex. These intricate interactions underscore the multifaceted roles of Crlf1 protein in both neurodevelopmental processes and immune regulation.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA