

Recombinant Mouse Crlf2 protein, Fc-tagged

Cat. No. Crlf2-451M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Crlf2(Ala20-Leu233) fused with Fc tag at C-terminal was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	Ala20-Leu233
Description	The cytokine thymic stromal lymphopoietin receptor (TSLPR) is consisting of a common γ receptor-like chain (TSLPR-γ) and a common interleukin 7 (IL-7) Rα chain that belongs to the type 1 cytokine receptor family. Transfection of TSLPR cDNA result in only low affinity binding, while cotransfection of the IL-7Rα chain cDNA shows high affinity binding. TSLP and TSLPR play a critical role in the initiation of allergic diseases in mice. The TSLP R cDNA encodes a transmembrane receptor containing 370 amino acids (aa) with two potential N-linked glycosylation sites and a cytoplasmic domain of 104 aa including a single tyrosine residue. TSLPR can mediate signaling of the signal transducer and activator of transcription 5 (Stat5) by TSLP. TSLP R is broadly expressed in the immune and hematopoietic cells, particularly in hematopoietic progenitors and myeloid cells.
Form	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
AA Sequence	AAAVTSRGDVTVVCHDLETVEVTWGSQPDHHSANLSLEFRYGTGALQPCPRYFLS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GAGVTSGCIL PAARAGLLELALRDGGGAMVFKARQRASAWLKPRPPWNVTLTWTP
DGDVTVSWPAHSYLGLDYEY QHRESNDDAWQTTSGPCCDLTVGGGLDPARCYD
FRVRASPRAAHYGLEAQPSEWTAVTRLGGAA SAASCTASPAPSPALAPPLVDDIEG
RMDEPKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDTLM ISRTPEVTCVVDVSH
EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGK EYKCK
VSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVE
WE SNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHN
HYTQKSLSLSPGK

Endotoxin Less than 0.1 ng/?g (1 IEU/?g) as determined by LAL test.

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name *Crlf2* cytokine receptor-like factor 2 [*Mus musculus*]

Official Symbol *Crlf2*

Synonyms CRLF2; cytokine receptor-like factor 2; CRLM-2; delta 1; TSLP receptor; lymphocyte

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antigen 114; type I cytokine receptor delta 1; cytokine receptor-like molecule 2; thymic stromal lymphopoietin protein receptor; thymic stromal-derived lymphopoietin, receptor; transmembrane phosphoinositide 3-phosphatase and tensin homolog 2; CRLM2; Ly114; Tpte2; Tslpr;

Gene ID [57914](#)

mRNA Refseq [NM_001164735](#)

Protein Refseq [NP_001158207](#)

MIM

UniProt ID [Q8CII9](#)

Chromosome Location 5; 5 F

Pathway Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;

Function cytokine activity; receptor activity;

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