

## Recombinant Mouse Crf2 protein, His-tagged

Cat. No. Crf2-452M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Crf2(Ala20-Leu233) fused with His tag at C-terminal was expressed in HEK293.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	Ala20-Leu233
<b>Description</b>	<p>The cytokine thymic stromal lymphopoietin receptor (TSLPR) is consisting of a common <math>\gamma</math> receptor-like chain (TSLPR-<math>\gamma</math>) and a common interleukin 7 (IL-7) R<math>\alpha</math> 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-7R<math>\alpha</math> 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.</p>
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
<b>AA Sequence</b>	AAAVTSRQDVTVVCHDLETVEVTWGSQPDHHSANLSLEFRYGTGALQPCPRYFLS

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GAGVTSGCIL PAARAGLLELALRDGGGAMVFKARQRASAWLKPRPPWNVTLLWTP  
 DGDVTVSWPAHSYLGLDYEY QHRESNDDAWQTTSGPCCDLTVGGLDPARCYD  
 FRVRASPRAAHYGLEAQPSEWTAVTRLGAA SAASCTASPAPSPALAPPLVDHHH  
 HHH

**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 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade 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 ddH<sub>2</sub>O. 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 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;

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	CRLM2; Ly114; Tpte2; Tslpr;
<b>Gene ID</b>	57914
<b>mRNA Refseq</b>	NM_001164735
<b>Protein Refseq</b>	NP_001158207
<b>MIM</b>	
<b>UniProt ID</b>	Q8CII9
<b>Chromosome Location</b>	5; 5 F
<b>Pathway</b>	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;
<b>Function</b>	cytokine activity; receptor activity;

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