Active Recombinant Human CRLF2, Fc-tagged

Cat. No. CRLF2-76H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRLF2 was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the type I cytokine receptor family. The encoded protein is a receptor for thymic stromal lymphopoietin (TSLP). Together with the interleukin 7 receptor (IL7R), the encoded protein and TSLP activate STAT3, STAT5, and JAK2 pathways, which control processes such as cell proliferation and development of the hematopoietic system. Rearrangement of this gene with immunoglobulin heavy chain gene (IGH) on chromosome 14, or with P2Y purinoceptor 8 gene (P2RY8) on the same X or Y chromosomes is associated with B-progenitor acute lymphoblastic leukemia (ALL) and Down syndrome ALL. Alternatively spliced transcript variants have been found for this gene.
Predicted N Terminal	Gly25
Form	Lyophilized from a 0.2 μm filtered solution in PBS.
Bio-activity	Measured by its ability to inhibit TSLP-dependent proliferation of BaF3 mouse pro-B cells co-transfected with human IL-7 R alpha and human TSLP R. The ED50 for this effect is typically 10 - 30 μg/mL in the presence of 0.2 ng/mL of rhTSLP.
Molecular Mass	Predicted Molecular Mass: 50.6 kDa (monomer)SDS-PAGE: 65-75 kDa, reducing

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	conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70 °C as supplied.1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 g/mL in sterile PBS.

GENE INFORMATION

Gene Name	CRLF2 cytokine receptor-like factor 2 [Homo sapiens (human)]
Official Symbol	CRLF2
Synonyms	CRLF2; cytokine receptor-like factor 2; CRL2; TSLPR; IL-XR; TSLP receptor; P2RY8/CRLF2 fusion; cytokine receptor-like 2; cytokine receptor CRL2 precusor; thymic stromal lymphopoietin receptor; thymic stromal lymphopoietin protein receptor; thymic stromal-derived lymphopoietin receptor; CRLF2Y
Gene ID	64109
mRNA Refseq	NM_022148
Protein Refseq	NP_071431
MIM	300357
UniProt ID	Q9HC73

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Chromosome Location	Xp22.3; Yp11.3
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; TSLP Signaling Pathway

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