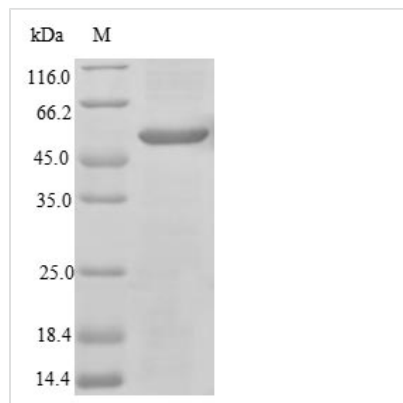


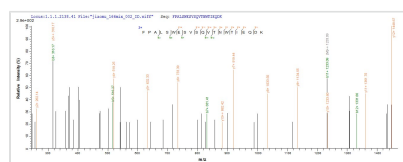


Recombinant Mouse Interleukin-31 receptor subunit alpha (Il31ra), partial

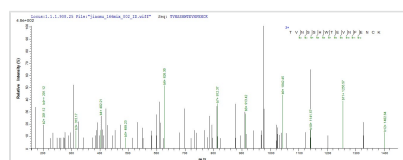
Product Code	CSB-EP818362MO
Abbreviation	Recombinant Mouse Il31ra protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q8K5B1
Storage Buffer	Tris-based buffer, 50% glycerol
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	VLPTKPENISCVFYFDRNLTCTWRPEKETNDTSYIVTLTYSYGKSNYSDNATEA SYSFPRSCAMPPDICSVEVQAQNGDGKVKSDITYWHLISIAKTEPPPIILSVNPIC NRMFQIQWKPREKTRGFPLVCMLRFRTVNSSHWTENVFENCKQVCNLTGLQ AFTEYVLALRFRFNDSTRYWSKWSKEETRVTMEEVPHVLDLWRILEPADMNGD RKVRLLWKKARGAPVLEKTFGYHIQYFAENSTNLTEINNITTQQYELLMSQAH SVSVTSFNSLGKSQEAILRIPDVHEKTFQYIKSMKAYIAEPLLVVNWQSSIPAVD TWIVEWLPEAAMSKFPALSWESVSQVTNWTEIQDKLKPFCTCYNISVYPVLGHR VGEPYSIQAYAKEGTPLKGPETRVENIGLRTATITWKEIPKSARNGFINNYTVFY QAEKGKELSKTVNSHALQCDLESLTRRTSYTVWVMASTRAGGTNGVRINFKT
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	Il31ra
Protein Names	Recommended name: Interleukin-31 receptor subunit alpha Short name= IL-31 receptor subunit alpha Short name= IL-31R subunit alpha Short name= IL-31R-alpha Short name= IL-31RA Alternative name(s): GLM-R Short name=
Expression Region	19-499aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	59.2 kDa
Protein Length	Extracellular Domain
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP818362MO could indicate that this peptide derived from E.coli-expressed Mus musculus (Mouse) IL31ra.



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Description

The production of this recombinant Mouse IL31ra protein is just like all recombinant proteins. The process involved transfecting E.coli cells with DNA vector containing the template of recombinant DNA. The E.coli cells containing the template were then cultured so that they could transcribe and translate the IL31ra protein. N-terminal 6xHis tag was used in the process. The purity is 0.85 determined by SDS-PAGE.

The receptor IL-31RA is the receptor of IL-31, which has been found unregulated in skin and lung fibroblasts from Scleroderma. IL-31 acts via a heterodimeric receptor comprising IL-31RA and oncostatin M, expressed by multiple cell types, and signalling via PI3K, ERK and JAK/STAT pathways. Interleukin (IL)-31 is a cytokine produced mainly by Th2 cells. And it signals via the IL-31RA and oncostatin M receptor β heterodimer. IL-31RA is expressed in both human skin and dorsal root ganglions. IL-31RA is a critical neuroimmune link between Th2 cells and the sensory nerves. Some reports suggested that that IL-31RA is expressed not only in nerve fibres but also in keratinocytes in the dermis from Alzheimer patients. Besides, researchers observed that administration of IL-31 upregulates IL-31RA in dorsal root ganglia and causes severe itch-associated scratching behaviour in mice.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.