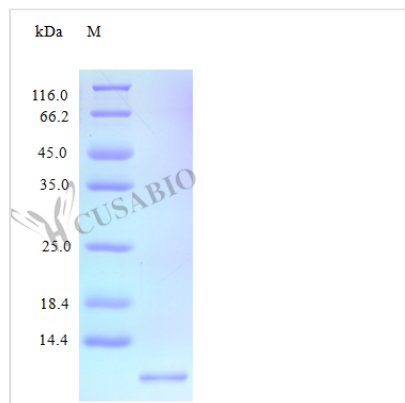




Recombinant Human C-X-C motif chemokine 11 protein (CXCL11)

Product Code	CSB-AP000731HU
Abbreviation	Recombinant Human CXCL11 protein (Active)
Uniprot No.	O14625
Storage Buffer	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
Product Type	Chemokines
Immunogen Species	Homo sapiens (Human)
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human IL-2 activated human T-lymphocytes is in a concentration range of 0.1-10 ng/ml.
Purity	>97% as determined by SDS-PAGE.
Sequence	FPMFKRGRCL CIGPGVKAVK VADIEKASIM YPSNNCDKIE VIITLKENKG QRCLNPKSKQ ARLIKKVER KNF
Research Area	Immunology
Source	E.Coli
Target Names	CXCL11
Expression Region	22-94aa
Tag Info	Tag-Free
Mol. Weight	8.3 kDa
Protein Length	Full Length of Mature Protein
PubMed ID	8798467; 9370294; 9625760; 10233762; 10386863; 10395932; 15489334; 9730616; 18645041; 15273303

Image



Description

The Recombinant Human CXCL11 protein is a valuable research tool for



scientists working in the immunology domain. This C-X-C motif chemokine 11, also known by the names CXCL11, ITAC, SCYB11, and SCYB9B, is generated in *E. coli* and represents the 22-94aa expression region of the full-length mature protein. The tag-free protein is supplied as a lyophilized powder, enabling easy reconstitution using sterile water or an appropriate buffer to meet various experimental needs.

Our Recombinant Human CXCL11 protein exhibits a high degree of purity, exceeding 97% as confirmed by both SDS-PAGE and HPLC analysis. The endotoxin level is strictly controlled at less than 1.0 EU/μg, as determined through the LAL method. This protein is fully biologically active, as demonstrated by its efficacy in a chemotaxis bioassay using IL-2-activated human T-lymphocytes, with an effective concentration range of 0.1-10 ng/ml.

The CXCL11 chemokine has been the subject of several research studies. Loetscher *et al.* (1998)^[1] first reported CXCL11 as a selective ligand for CXCR3, attracting activated T cells. In 2001, Farber (2001)^[2] reviewed the role of CXCL11 in the regulation of T-cell trafficking and its contribution to inflammatory diseases. More recently, Teng *et al.* (2018)^[3] explored the potential of CXCL11 as a biomarker for human colorectal cancer. Collectively, these studies underscore the importance of CXCL11 in immune system function and highlight its potential as a therapeutic target for various immune-related disorders.

References:

1. Loetscher M, *et al.* CXC chemokine IP-10 and Mig: Regulation of chemotactic activity in vitro and expression in vivo. *J Immunol.* 1998;160(6): 2557-65.
2. Farber JM. Mig and IP-10: CXC chemokines that target lymphocytes. *J Leukoc Biol.* 1997;61(3): 246-57.
3. Teng KY, *et al.* Plasma CXCL10 is a potential biomarker for colorectal cancer. *Oncol Lett.* 2018;15(4): 4205-10.

Endotoxin	Less than 1.0 EU/μg as determined by LAL method.
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.