

IL-33/IL-1F11, Human, Recombinant

Cat. No. : PCK191

General Information

Synonyms	IL-1 F11;NF-HEV;DVS27
Species	Human
Expression host	E.coli
Sequence	MSITGISPITEYLASLSTYNDQSITFALEDES YEIYVEDLKKDEKKDKVLLSYYESQHPSNESGD GVDGKMLMVTLSPTKDFWLHANNKEHSVELHKCEKPLPDQAFFVLHNMHSNCVSFECKTDP GVFIGVKDNHLALIKVDSSENLCTENILFKLSET with polyhistidine tag at the C-terminus.
Accession	O95760.1
Tag	His-tag at the C-terminus
Mol mass	18.93 kDa
Expiration date	12 months
Bio activity	Measure by its ability to binding with recombinant ST2L (IL-33 receptor). The ED50 for this effect is < 54 ng/mL. Measure by its ability to induce proliferation in D10.G4.1 cells. The ED50 for this effect is < 0.1 ng/mL. The specific activity of recombinant human IL-33 is approximately > 4 ×10 ⁷ IU/mg.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin 33 (IL-33) is a member of the IL-1 family that potently drives production of T helper-2 (Th2)-associated cytokines (e.g., IL-4). IL33 is a ligand for ST2 (IL1RL1), an IL-1 family receptor that is highly expressed on Th2 cells, mast cells and group 2 innate lymphocytes. It is expressed by a wide variety of cell types, including fibroblasts, mast cells, dendritic cells, macrophages, osteoblasts, endothelial cells, and epithelial cells.

SDS-PAGE

