

Recombinant Mouse IL-33

Catalog # FL061

Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 98% by SDS-PAGE or HPLC.
Endotoxin	< 0.01 EU/μg of rMuIL-33 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Mouse
Tag	Tag free.
Activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using mouse D10S cells is less than 0.5 ng/ml, corresponding to a specific activity of $\geq 2.0 \times 10^6$ IU/mg.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.
Accession #	Q8BVZ5 Ser109-Ile266
Amino acid sequence	SIQGTSLLTQSPASLSTYNDQSVSFVLENGCYVINVDDSGKDQEQQVLLRYYESPCPASQSGDGVGDKKLMVNMSPDKDTDIWLHANDKDYVELQRGDVSPPEQAFFVLHKKSSDFVSFECKNLPGTYIGVKDNQLALVEEKDESCNNIMFKLSKI
Molecular weight	Approximately 17.5 kDa, a single non-glycosylated polypeptide chain containing 158 amino acids.
Synonyms	Interleukin-33, IL-1 F11, NF-HEV
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored $\leq -20^\circ\text{C}$. Please avoid repeated freeze-thaw cycles after reconstitution. 36 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.
Precautions	Recombinant Mouse IL-33 is for research use only and not for use in diagnostic or therapeutic procedures.

Background

IL-33 is a member of the IL-1 superfamily, secreted by high endothelial venules at high levels, which is found in tonsils, Peyer patches and mesenteric lymph nodes, but not in placenta. It binds and signals through the IL-1RL1/ST2 receptor, to activate NF-κB and MAP kinases. IL-33 induces production of TH2 cell related cytokines, including IL-4, IL-5 and IL-13, and exerts multiple inflammation related bioactivities. Full length and mature mouse IL-33 share approximately 55% and 90% aa sequence identity with human and rat IL-33, respectively. Recombinant Mouse IL-33 is a 17.5kDa protein containing 158 amino acids.

