

Recombinant Murine Interleukin-33

#R00232

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and 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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

IL-33 is a number of 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 elicits its biological effects by interacting with IL1RL1/ST2 and its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. IL-33 induces production of TH2 cell related cytokines, including IL-4, IL-5 and IL-13, and exerts multiple inflammation related bioactivities. Mature IL-33 share approximately 55 % and 90 % a.a. sequence identity with human and rat IL-33 respectively.

AA Sequence

SIQGTSLLTQSPASLSTYNDQSVSFVLENGCYVINVD
DSGKDQEQDQVLLRYYESPCPASQSGDGV DGKKLM
VNMSPIKDTDIWLHANDKDYSVELQRGDVSPPEQAF

FVLHKKSSDFVSFECKNLPGTYIGVKDNQLALVEEKD
ESCNNIMFKLSKI

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	IL-1F11, NF-HEV
Accession	Q8BVZ5
GeneID	77125
Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 17.5 kDa protein containing 158 amino acid residues.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁶ IU/mg.

Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, and 1 mM EDTA.
Endotoxin	Less than 1 EU/μg of rMuLL-33 as determined by LAL method.