

BACKGROUND:

Interleukin 33 (IL-33) is a member of the IL-1 cytokine family and is constitutively expressed in smooth muscle and airway epithelial cells. IL-33 signals through the interleukin 1 receptor-like 1 (IL-1R1) and interleukin-1 receptor accessory protein (IL1RAP) receptors to activate NF-κB and MAPK signaling pathways. IL-33 functions to induce type 2 cytokine production in polarized Type 2 T helper (Th2) cells.

Recombinant mouse Interleukin 33 is a non-glycosylated protein monomer, containing 159 amino acids and having a molecular mass of 17.7 kDa.

Cat. No.:
 RP2036AF

Alternate Names:
 NP-HEV

AA Sequence:

MSIQGTSLLT	QSPASLSTYN	DQSVSFVLEN
GCYVINVDDS	GKDQEQDQVL	LRYYESPCPA
SQSGDGVGDK	KLMVNMSPIK	DTDIWLHAND
KDYSVELQRG	DVSPPEQAFF	VLHKKSSDFV
SFECKNLPGT	YIGVKDNQLA	LVEEKDESCN
NIMFKLSKI		

TECHNICAL INFO

Source:
E. coli

Physical Appearance:
 Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
 10 mM sodium phosphate, pH 7.5

Stability:
 Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
 Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
 Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
 The activity is measured by dose-dependent D10S cell proliferation, with Bioactivity Acceptance Criteria ED50 at 2 ng/mL.

Animal Component-Free
 This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

