Recombinant Human IL33

Cat No:HR2R1601

For research use only

Overview

Quantity	10 x 10 ?g (Z100535 x 10)
Gene Symbol	IL33
Gene ID	90865
Accession	O95760
Alternative Name	IL-33, Nuclear factor from high endothelial venules, Interleukin-1 family member 11, IL1F-11, C9orf26, NF-HEV Recombinant Human Interleukin-33 (IL33)
Species	Human
Source	E. coli
Description	IL-33, a member of the IL-1 family, signals via a heterodimeric receptor complex consisting of ST2 and IL-1R accessory protein and triggers the activation of NF-B and all three MAPKs: p38, ERK1/2, and JNK1/2 in mast cells. IL-33 is expressed in multiple tissues and by several cell types such as dermal fibroblasts and small airway epithelial and bronchial smooth muscle cells. IL-33 activated IL-1-like signaling responses in mast cells and enhanced IL-5 and IL-13 production from murine Th2-polarized splenocytes. Moreover, it was found that both human and murine mast cells when stimulated in vitro with IL- 33 produced a wide spectrum of cytokines and chemokines. In addition, IL-33 enhanced IL-4-driven Th2 cell responses and acted as a selective chemoattractant for Th2 cell recruitment.
Functions	The ED(50) was determined by the dose-dependent proliferation of murine D10S cells is ? 0.03 ng/mL.
Formulation	Recombinant Interleukin-33 was lyophilized from 0.2 ?m filtered 1.0 mg/mL in PBS buffer.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	18
Purity	>95% as determined by SDS-PAGE
Concentration	< 1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.