

Recombinant Mouse IL33

Cat No:HR2R2171

For research use only

Overview

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| Quantity | 1.0 ?g |
| Gene Symbol | IL33 |
| Gene ID | 77125 |
| Accession | Q8BVZ5 |
| Alternative Name | IL-33 Recombinant Mouse Interleukin-33 (IL33) |
| Species | Mouse |
| 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 ? 0.3 ng/mL. |
| Formulation | Recombinant Interleukin-33 was lyophilized from a 0.2 ?m filtered PBS solution pH 7.5. |
| 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. |