9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL 33 Mouse

Interleukin-33 Mouse Recombinant
CYK0326

Product Overview

Name	IL 33 Mouse
Description	
Interleukin-33 Mouse Recombinant	
Accession (Primary)	Q8BVZ5
Synonyms	
Interleukin 33, DVS27, NF-HEV, NKHEV, C9orf26, Interleukin-1 family member 11, IL- 1F11, Nuclear factor from high endothelial venules, Il-33, Il1f11, 9230117N10Rik, Il33.	
Introduction	
Interleukin 33 (IL-33) is a 32kDa proinflammatory cytokine that may also regulate gene transcription in producer cells. IL-33 is structurally related to IL-1, which induces helper T cells to produce type 2 cytokines and acts through the receptor IL1RL-1 (IL1 receptor-like-1), which is known also as ST2. Binding of IL-33 to this receptor activates NF-kappa-B and MAP kinases and induces in vitro Th2 cells to produce cytokines. In vivo, IL-33 induces expression of IL-4, IL-5, IL-13 and leads to severe pathological changes in mucosal organs and in vitro, it can be divided to N-terminal fragment of 12kDa and C-terminal fragment of 18kDa by cleavage of caspase-1.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The Mouse IL-33 was lyophilized from a sterile 0.2 micron filtered aqueous solution containing 10mM sodium phosphate, pH 7.5.	
Stability	
Lyophilized IL-33 Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-33 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by analysis by SDS-PAGE.	
Amino acid sequence	

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

Biological Activity

The ED 50 as determined by the dose-dependent stimulation of the proliferation of murine D10S cells is 0.04ng/ml, corresponding to a specific activity of 2.5x10 7 units/mg.

Solubility

It is recommended to reconstitute the lyophilized IL-33 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 33 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q8BVZ5)