

32-1517: mIL 33 Recombinant Protein

Alternative Name 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.

Description

Source : Escherichia Coli. Interleukin33 Mouse recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 158 amino acids and having a molecular mass of 17.5 kDa. 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.

Product Info

Amount :	10 µg
Purification :	Greater than 97.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The Mouse IL-33 was lyophilized from a concentrated (1mg/ml) solution containing 20mM Phosphate buffer pH-7.4, 150mM sodium chloride, 1mM EDTA and 2mM b-ME.
Storage condition :	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.
Amino Acid :	SIQGTSLLTQ SPASLSTYND QSVSFVLENG CYVINVDDSG KDQEQDQVLL RYYESPCPAS QSGDGVGDKK LMVMNSPIKD TDIWLHANDK DYSVELQRGD VSPPEQAFFV LHKSSDFVS FECKNLPGTY IGVKDNQLAL VEEKDESCNN IMFKLSKI.

Application Note

It is recommended to reconstitute the lyophilized IL-33 in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependent stimulation of the proliferation of murine D10S cells is < 0.5ng/ml, corresponding to a specific activity of 2,000,000 units/mg.

