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32-1519: rIL 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,NFEHEV,DKFZp586H0523,RP11-575C20.2,IL-33.

Description

Source : Escherichia Coli. IL 33 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 156 amino acids and having a molecular mass of 17.4kDa.The IL 33 is purified by proprietary chromatographic techniques. 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 95.0% as determined by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Storage condition :	Lyophilized IL-33 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 :	SIQGTSLLTE SCALSTYNDQ SVSFVLENGC YVINVEDCGK NQEKDKVLLR YYESSFPAQS GDGVDGKKLM VNMSPIKDTD IWLNANDKDY SVELQKGDVS PPDQAFFVLH KKSSDFVSFE CKNLPGTYIG VKDNQLALVE ENDESCNNIM FKLSKM

Application Note

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

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