
Product Data Sheet

Product Name: IL 33 Rat
 Cat. No.: GP20649
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	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.		
Amino Acid Sequence	SIQGTSLLTE SCALSTYNDQ SVSFVLENGC YVINVEDCGK NQEKDKVLLR YYESSFPAQS GDGVDGK KLM VNMSPDKDTD IWLNANDKDY SVELQKGDVS PPDQAFFVLH KKSSDFVSFE CKNLPGTYIG VKDNQLALVE ENDESCNNIM FKLSKM		
Solubility	It is recommended to reconstitute the lyophilized IL-33 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

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.

Biological Activity

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

Caution: Product has not been fully validated for medical applications. For research use only.

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>2,000,000units/mg.

Stability

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.

Background

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.

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