

## Recombinant Human Interleukin-33(rHu IL-33)

Catalog No: #70133



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## Description

Product Name	Recombinant Human Interleukin-33(rHu IL-33)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 97 % by SDS-PAGE and HPLC analyses.
Species Reactivity	Hu
Target Name	rHu IL-33
Other Names	IL-1F11, NF-HEV, DVS 27
Accession No.	accession:O95760 GeneID:90865
Uniprot	O95760
GeneID	90865;
Calculated MW	Approximately 17.9 kDa, a sing
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	SITGISPITE YLASLSTYND QSITFALEDE SYEIVVEDLK KDEKKDKVLL SYYESQHPSN ESGDGVGKMLMVTLSPTKD FWLHANNKEH SVELHKCEKP LPDQAFFVLH NMHSNCVSFE CKTDPGVFIG VKDNHLALIKVDSSENLCTE NILFKLSET
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, 150 mM NaCl, 1mM EDTA, pH7.4.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

## Background

IL-33, encoded by IL-33 gene located on the Chr.9 in humans, is a 30 kDa proinflammatory protein belonging to the IL-1 superfamily and it shares less than 20 % a.a. sequence identity with other members. IL-33 secreted by high endothelial venules at high levels, which is found in tonsils, peyer patches and mesenteric lymph nodes, but not in placenta. It is upregulated in arterial smooth muscle, dermal fibroblasts, and keratinocytes following IL1 $\alpha$  or IL1 $\beta$  stimulation. It elicits its biological effects by interacting with IL1RL1 ST2 and its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3 ERK1 and or MAPK1 ERK2, MAPK14, and MAPK8. IL-33 mature protein has 52-58 % a.a. sequence identity with mouse and rat IL-33.

## References

1. Liew FY, Pitman NI, McInnes IB. 2010. Nat Rev Immunol, 10: 103-10.
2. Miller AM, Xu D, Asquith DL, et al. 2008. J Exp Med, 205: 339-46.
3. Bourgeois E, Van LP, Samson M, et al. 2009. Eur J Immunol, 39: 1046-55.
4. Zhiguang X, Wei C, Steven R, et al. 2010. Immunol Lett, 131: 159-65.
5. Turnquist HR, Zhao Z, Rosborough BR, et al. 2011. J Immunol, 187: 4598-610.

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Note: This product is for in vitro research use only