

32-1518: mIL 33 His Recombinant Protein

Alternative Name : 9230117N10Rik,IL-33,IL1f11,NF-HEV,Interleukin-33.

Description

Source : Escherichia Coli. IL33 Mouse, His Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 181 amino acids (109-266 a.a) and having a molecular mass of 18.1kDa.IL33 is fused to a 23 amino acid His-tag at N-terminus & 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 85.0% as determined by SDS-PAGE.
Content :	IL33 protein solution (0.5mg/ml) containing Phosphate buffered saline,10% glycerol and 1mM DTT.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHH SSGLVPRGSH MGSSIQGTSL LTQSPASLST YNDQSVSFVL ENGCVINVD DSGKDQEQDQ VLLRYYESPC PASQSGDGV D GKKLMVMNMSP IKDTDIWLHA NDKDYSVELQ RGDVSPPEQA FFVLHKKSSD FVSFECKNLP GTYIGVKDNQ LALVEEKDES CNNIMFKLSK I.

Application Note

Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED50 for this effect is $\approx 0.1\text{ng/ml}$.

