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# IL 33 Human, His

**Catalog #:**CYPS-674

For research use only.

**Description:**Interleukin-33 Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 159 amino acids C-terminal fragment (112-270) having a molecular weight of 20.5kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The IL-33 His is purified by proprietary chromatographic techniques.

**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, IL33.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered clear solution.

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**
Interleukin-33 His-Tag protein is supplied in 1xPBS, 50% glycerol.

**Stability:**
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

**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 throµgh 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.

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