

**IL33, 109-266aa, Mouse, His tag, E.coli****Cat.NO.: TP02637**

3th Edition

**Synonyms:** Interleukin-33, 230117N10Rik, IL-33, Il-33, Il1f11, Interleukin 33

**Description:** 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. Recombinant mouse IL33 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:** Liquid. In Phosphate buffered saline, 10% glycerol, 1mM DTT

**Molecular Weight:** 18.1kDa (181aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSSIQGTSLTQSPASLSTYNDQSVSFVLENGCYVINVDDSGKDQEQDQVLLRY  
YESPCPASQSGDGDGKGLMVNMSPDKDTIWLHANDKDYSVELQRGDVSPPEQAFFVLHKKSSDFVSFECKNLP  
GTYIGVKDNQLALVEEKDESCNNIMFKLSKI

**Purity:** > 95% by HPLC

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.