



## Product Datasheet

<b>Product Name</b>	Interleukin-33 Human Recombinant
<b>Cata No</b>	CB500327
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	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.

### 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.

Interleukin33 is a single, non-glycosylated, polypeptide Human Recombinant produced in E.Coli chain containing 160 amino acids and having a molecular mass of 18 kDa.

The IL-33 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered colorless liquid.

### Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Formulation

The protein is formulated in 20mM Tris pH-8.

### Stability

IL-33 although stable at 4°C for 1 week, should be stored desiccated below -18°C. Upon arrival IL33 Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### Sequence

MSITGISPIT EYLASLSTYN DQSITFALED  
ESYEIYVEDL KKDEKKDKVL LSYYESQHPS  
NESGDGVDGK MLMVTLSPK DFWLHANNKE  
HSVELHKCEK PLPDQAFFVL HNMHSNCVSF  
ECKTDPGVFI GVKDNHLALI KVDSSLENLCT  
ENILFKLSET