



Interleukin-33, human recombinant (rHuIL-33)

Catalog No: 94974
Lot No: XXXXX
Source: *E. coli*
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

Background

Interleukin 33 (IL-33) is a 32 kDa 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 12 kDa and C-terminal fragment of 18 kDa by cleavage of caspase-1.

Description

Interleukin-33 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 160 amino acids and having a molecular mass of 18,125 kDa. IL-33 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from 10 mM NaP pH 7.5.

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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

MSITGISPIT EYLASLSTYN DQSITFALED ESYEIIYVEDL KKDEKKDKVL LSYYESQHPS NESGDGVDGK MLMVTLSPTK
DFWLHANNKE HVELHKCEK PLPDQAFFVL HNMHSNCVSF ECKTDPGVFI GVKDNHLALI KVDSSLENLCT ENILFKLSET

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51