

Human IL-33 (C208S,C227S,C232S,C259S) Protein; His Tag

Product Information

Product Name Human IL-33 (C208S,C227S,C232S,C259S) Protein; His Tag

Storage temp Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt.
Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-88847RP-100 / 100 μg
GM-88847RP-1000 / 1 mg

Protein Information

Alternative Names NFHEV, DKFZp586H0523, DVS27, NFEHEV, RP11-575C20.2

Source Human IL-33 (C208S,C227S,C232S,C259S) Protein; His Tag (GM-88847RP) is expressed from human 293 cells (HEK-293). It contains AA His109-Thr270 (Accession # O95760-1).

This protein carries a His tag at the N-terminus.

Purity > 95% as determined by SDS-PAGE

Endotoxin < 1 EU/ μg , determined by LAL gel clotting assay

Predicted Mol Mass 19.1 kDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.

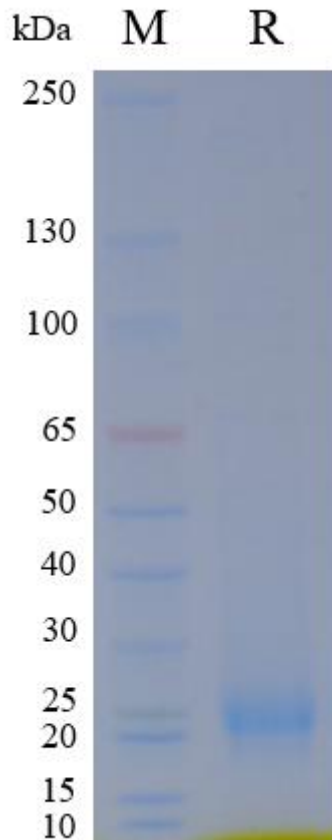
Description IL-33 protein, full name Interleukin-33, is an important cytokine and a member of the IL-1 superfamily. The IL-33 (C208S, C227S, C232S, C259S) variant is a site-directed mutant form in which four cysteine residues at positions 208, 227, 232, and 259 are replaced by serine residues, designed to enhance protein stability and prevent disulfide bond-mediated aggregation or oxidation. IL-33 protein plays a crucial role in regulating immune responses, inflammation, and tissue homeostasis in normal cells.

Currently, therapeutic strategies targeting IL-33 or its receptor ST2 are under clinical investigation, including neutralizing antibodies and receptor antagonists, which aim to block IL-33/ST2 signaling to alleviate inflammatory symptoms and improve disease outcomes in patients with allergic and autoimmune disorders.

In summary, IL-33 (C208S, C227S, C232S, C259S) protein plays a critical role in immune regulation and inflammatory diseases, and is of great significance for understanding the pathogenesis of immune-mediated disorders, developing targeted therapeutic interventions, and evaluating patient prognosis. This engineered mutant form provides a more stable and reliable tool for research and therapeutic applications.

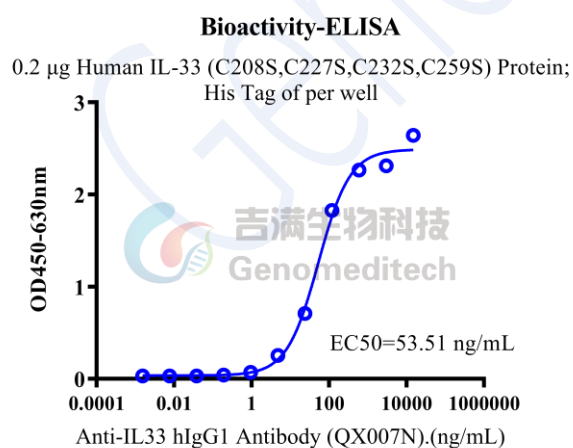
Version:4.0

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human IL-33 (C208S,C227S,C232S,C259S) Protein; His Tag (Catalog # GM-88847RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Anti-IL33 hIgG1 Antibody (QX007N) (Catalog # GM-88160AB) were added.