

Human IL-33 Protein; His Tag

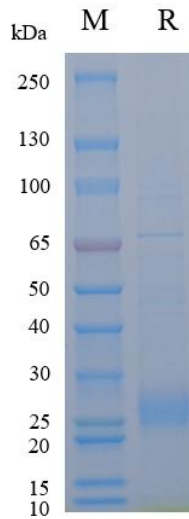
Product Information

Product Name	Human IL-33 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-88001RP-100 / 100 μg GM-88001RP-1000 / 1 mg

Protein Information

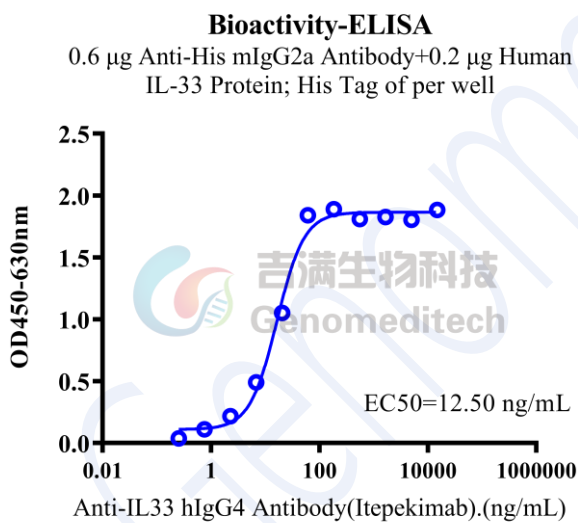
Alternative Names	IL33, DV27, C9ORF26, IL1F11, NFHEV, DVS27, NFEHEV
Source	Human IL-33 Protein; His Tag (GM-88001RP) is expressed from human 293 cells (HEK-293). It contains AA His 109 - Thr 270 (Accession # O95760-1). This protein carries a His tag at the N-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	19.2 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	<p>IL-33 (Interleukin-33) is a proinflammatory cytokine belonging to the interleukin family, and it is a nuclear protein. It initially exists in the nucleus in epithelial and endothelial cells and certain immune cells, functioning as a molecule involved in gene regulation.</p> <p>When tissues are damaged or stressed, IL-33 can be released into the extracellular environment as a "danger signal (alarmin)" to initiate and amplify immune responses; it binds to its receptor ST2 (also known as IL-1RL1), promoting activation and inflammatory mediation of immune cells such as T cells and dendritic cells.</p> <p>Researchers typically focus on its signaling pathways (e.g., the interaction with ST2 and downstream MyD88, NF-κB, MAPK pathways) as well as IL-33 splice variants, release mechanisms, and regulatory factors, to explore potential therapeutic targets or disease biomarkers.</p>

SDS-PAGE



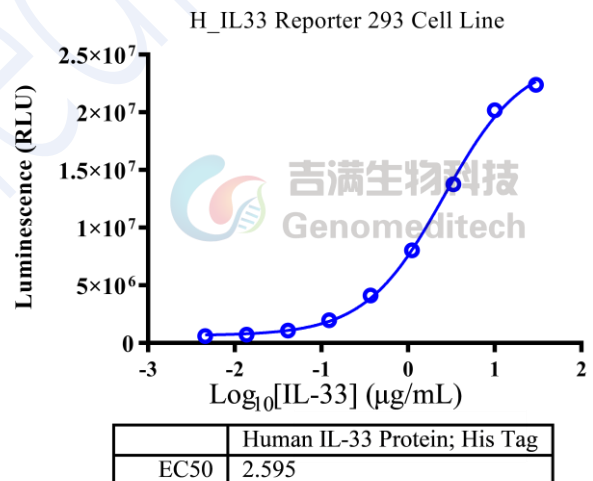
On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Human IL-33 Protein; His Tag (Catalog # GM-88001RP) was immobilized at 2 µg/ml (100 µL/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 µg/well) precoated. Increasing concentrations of Anti-IL33 hIgG4 Antibody (Itepekimab) (Catalog # GM-31628AB) were added.

Bioactivity-CELL BASE



Human IL-33 Protein; His Tag (Catalog # GM-88001RP) was added into H_IL33 Reporter 293 Cell Line (Catalog # GM-C12812) and stimulates related signals.