

Human KLK2 Protein; His Tag

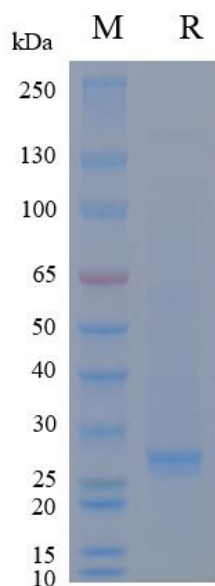
Product Information

Product Name	Human KLK2 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-88134RP-100 / 100 μg GM-88134RP-1000 / 1 mg

Protein Information

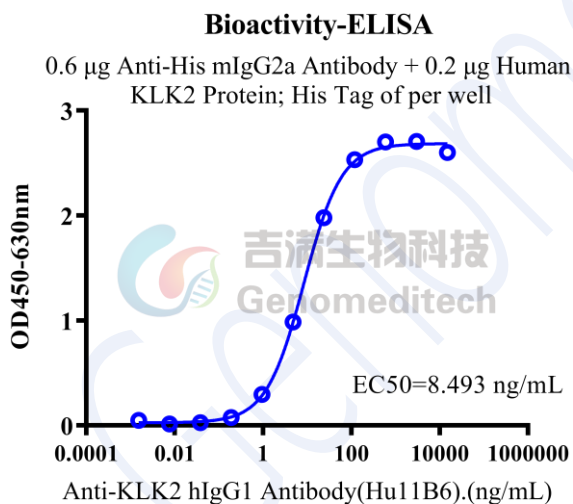
Alternative Names	Kallikrein 2, KLK2A2, hGK-1, hK2
Source	Human KLK2 Protein; His Tag (GM-88134RP) is expressed from human 293 cells (HEK-293). It contains AA Ile 25 - Pro 261 (Accession # P20151-1). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	27.0 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	KLK2 (Kallikrein-Related Peptidase 2) is a human serine protease in the kallikrein family. Kallikreins are secreted proteases expressed in the prostate, breast, skin, and urinary tract. KLK2 is synthesized as an inactive zymogen and activated to cleave specific peptide bonds, contributing to tissue remodeling, signaling, and protein degradation. It is especially abundant in the prostate and a key focus of prostate research and clinical testing. KLK2 has multiple roles in normal prostate physiology and pathology, including prostatic fluid production and composition, and regulation of hormone signaling. As a hormone-responsive protease, its expression and activity can be modulated by testosterone and androgens. Clinically, KLK2 is often studied as a biomarker for prostate cancer, typically alongside PSA to improve diagnosis, risk stratification, and monitoring. It may also be involved in other diseases, including inflammatory and tissue-injury-related protease networks.

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 KLK2 Protein; His Tag (Catalog # GM-88134RP) was immobilized at 2 μ g/ml (100 μ L/well) on Anti-His mIgG2a Antibody (Catalog # GM-59493AB) (0.6 μ g/well) precoated. Increasing concentrations of Anti-KLK2 hIgG1 Antibody (Hu11B6) (Catalog # GM-88129AB) were added.