

Kallikrein-1 Human Recombinant

Item Number	rAP-1238
Synonyms	KLK1, KLK-1, HK1, HK-1, KLKR, KLK6, Tissue Kallikrein, hKLK1, EC 3.4.21.35, Kidney/pancreas/salivary gland kallikrein, Kallikrein-1.
Description	KLK1 Human Recombinant produced in Yeast is a single, glycosylated, polypeptide chain containing 238 amino acids and having a molecular mass of 28-32 kDa. KLK1 Human Recombinant is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P06870
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ile-Val-Gly-Gly-Trp-Glu.
Source	Pichia Pastoris.
Physical Appearance and Stability	Sterile Filtered white lyophilized powder. Lyophilized KLK1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution KLK1 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.
Formulation and Purity	Lyophilized from a solution containing 1xPBS. Greater than 98.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized KLK1 in sterile 18M-cm H ₂ O not less than 100 µg/ml or more than 10 mg/ml solutions.
Biological Activity	Human Kallikrein-1 active Unit Definition: 1 unit will hydrolyze 1 µmole of H-D-Val-Leu-Arg-pNA(S-2266) per minute at pH 8.0 at 37°C Human Kallikrein-1 measured biological activity of no less than 5 Units/mg (S2266 method).
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**