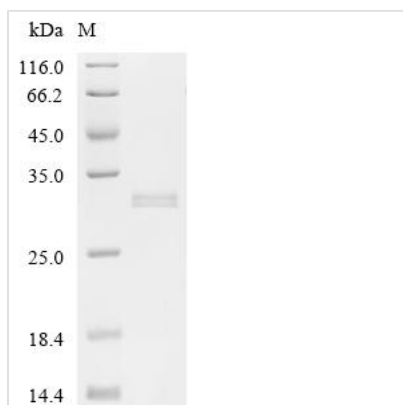


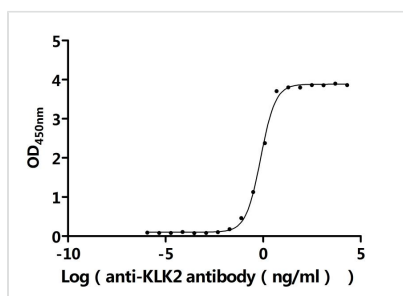


Recombinant Human Kallikrein-2 (KLK2) (Active)

Product Code	CSB-MP012453HU1
Abbreviation	Recombinant Human KLK2 protein (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P20151
Form	liquid
Storage Buffer	0.2 μm filtered 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	①Measured by its binding ability in a functional ELISA. Immobilized Human KLK2 at 2 μg/mL can bind Anti-KLK2 recombinant antibody (CSB-RA012453MA1HU). The EC50 is 0.6741-0.8245 ng/mL. ②Measured by its ability to cleave a flourogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFR-AMC). The specific activity is >350 pmol/min/μg.
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	PLIQSRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAAHCLKK NSQVWLGRHNLFEPEDTGQRPVSHSFPHPLYNMSLLKHQSLRPDEDSSHDL MLLRLSEPAKITDVVKVLGLPTQEPALGTTTCYASGWGSIEPEEFLRPRSLQCVS LHLLSNDMCARAYSEKVTEFMLCAGLWTGGKDTCCGGDSGGPLVCNGVLQGIT SWGPEPCALPEKPAVYTKVVHYRKWIKDTIAANP
Source	Mammalian cell
Target Names	KLK2
Expression Region	19-261aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	29.6 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized Human KLK2 at 2 µg/ml can bind Anti-KLK2 recombinant antibody (CSB-RA012453MA1HU). The EC₅₀ is 0.6741-0.8245 ng/mL.

Enzyme	Human KLK2 (CSB-MP012453HU1)	0.125µg/well
Substrate	Pro-Phe-Arg-AMC acetate salt (TG-LG-24827)	100µM
Reaction system	/	100µl
Reaction conditions	5min in dark	/
Buffer	50 mM Tris, 0.15 M NaCl, 10 mM CaCl ₂ , 0.05% (w/v) Brij-35, pH 7.5 (TCNB)	/
Enzyme activity unit	>350 pmol/min/µg	/

Activity
Measured by its ability to cleave a flourogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFR-AMC). The specific activity is >350 pmol/min/µg.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.