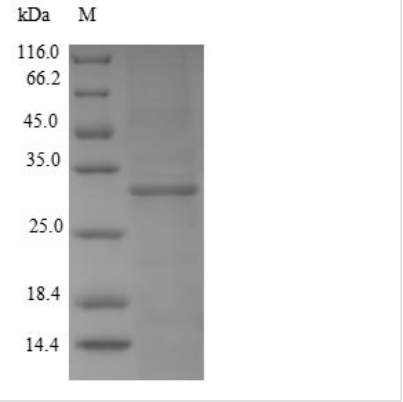
Recombinant Human Kallikrein-2 (KLK2)

Product Code	CSB-EP012453HU
Relevance	Glandular kallikreins cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin.
Abbreviation	Recombinant Human KLK2 protein
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
Alias	Glandular kallikrein-1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	IVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAAHCLKKNSQVW LGRHNLFEPEDTGQRVPVSHSFPHPLYNMSLLKHQSLRPDEDSSHDLMLLRL SEPAKITDVVKVLGLPTQEPALGTTCYASGWGSIEPEEFLRPRSLQCVSLHLLS NDMCARAYSEKVTEFMLCAGLWTGGKDTCGGDSGGPLVCNGVLQGITSWGP EPCALPEKPAVYTKVVHYRKWIKDTIAANP
Research Area	Signal Transduction
Source	E.coli
Target Names	KLK2
Protein Names	Recommended name: Kallikrein-2 EC= 3.4.21.35 Alternative name(s): Glandular kallikrein-1 Short name= hGK-1 Tissue kallikrein-2
Expression Region	25-261aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	30.2kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

Amino acids 25-261 form the expressed segment for recombinant Human KLK2. The theoretical molecular weight of the KLK2 protein is 30.2 kDa. This KLK2 recombinant protein is manufactured in e.coli. The KLK2 gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant KLK2 protein during the following stages.

Human kallikrein-2 (KLK2) is a serine protease belonging to the kallikrein-related peptidase family. It is primarily expressed in the prostate gland and is involved in several physiological processes. KLK2 is best known for its role in the cleavage of semenogelins, proteins found in seminal fluid, contributing to the liquefaction of semen after ejaculation. KLK2 is also used as a biomarker for prostate cancer detection and monitoring, as its levels in blood are elevated in individuals with prostate cancer. Understanding the functions and regulation of KLK2 is crucial for advancing prostate cancer therapeutics, making it a significant target for research in the field of urology and oncology.

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.