10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Human CellExp Kallikrein-1, human recombinant protein

KLK1, Kallikrein-1, KLKR, Klk6, hK1
Catalog # PBV11036r

Specification

Human CellExp Kallikrein-1, human recombinant protein - Product info

Primary Accession	P06870
Calculated MW	**This protein is fused with polyhistidine tag at the C-terminus, has a calculated MW of 27.9 kDa. The predicted N-terminus is Pro 19. DTT-reduced Protein migrates as 40-45 kDa due to glycosylation. KDa**

Human CellExp Kallikrein-1, human recombinant protein - Additional Info

Gene ID	**3816**
Gene Symbol	**KLK1**
Other Names	
KLK1, Kallikrein-1, KLKR, Klk6, hK1	
Gene Source	**Human**
Source	**HEK293 cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**
Results	**Measured by its ability to cleave a fluorogenic peptide substrate Pro – Phe – Arg – 7 – amido – 4 - methylcoumarin (PFR-AMC). The specific activity is >1200 pmol/min/ µg.**

Target/Specificity
Kallikrein-1

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized

Storage
-20°C; Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 2 mM CaCl2, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp Kallikrein-1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp Kallikrein-1, human recombinant protein - Images

Human CellExp Kallikrein-1, human recombinant protein - Background

Kallikrein-1 (KLK1) belongs to the peptidase S1 family and Kallikrein subfamily. KLK1 contains one peptidase S1 domain. KLK-1 preferential cleavage of Arg-|-Xaa bonds in small molecule substrates and also has highly selective action to release kallidin (lysyl-bradykinin) from kininogen involves hydrolysis of Met-|-Xaa or Leu-|-Xaa. Glandular Kallikreins cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin.

Human CellExp Kallikrein-1, human recombinant protein - References

Fukushima D.,et al.Biochemistry 24:8037-8043(1985).
Evans B.A.,et al.Biochemistry 27:3124-3129(1988).
Angermann A.,et al.Biochem. J. 262:787-793(1989).
Chen L.-M.,et al.Braz. J. Med. Biol. Res. 27:1829-1838(1994).
Yousef G.M.,et al.Biochem. Biophys. Res. Commun. 276:125-133(2000).