

## Kallikrein-1 Protein, Human (240a.a, HEK293, His)

Cat. No.:	HY-P73262
Synonyms:	Kallikrein 1; Kidney/pancreas/salivary gland kallikrein; KLK1; Klk6; KLKR
Species:	Human
Source:	HEK293
Accession:	P06870 (S23-S262)
Gene ID:	3816
Molecular Weight:	Approximately 50 kDa

### PROPERTIES

Biological Activity	Measured by its ability to cleave a fluorogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFR-AMC) and the specific activity is >1,500 pmoles/min/μg. (Activation description: The proenzyme needs to be activated by Thermolysin for an activated form)
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Kallikrein-1 protein functions by cleaving Met-Lys and Arg-Ser bonds in kininogen, leading to the release of Lys-bradykinin. In the context of microbial infection, it plays a role in cleaving Neisseria meningitidis NHBA in saliva, with Neisseria being an obligate commensal of the nasopharyngeal mucosa.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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