

Kallikrein-11 Protein, Human (HEK293, His)

Cat. No.:	HY-P73263
Synonyms:	Kallikrein-11; TLSP; hK11; Hippostasin; Trypsin-like protease; Serine protease 20
Species:	Human
Source:	HEK293
Accession:	Q9UBX7 (E19-N250)
Gene ID:	11012
Molecular Weight:	Approximately 40 kDa

PROPERTIES

Biological Activity	Measured by its ability to cleave a colorimetric peptide substrate D-Val-Leu-Lys-ThioBenzyl ester (VLK-SBzl), in the presence of 5,5'-Dithio-bis (2-nitrobenzoic acid) (DTNB) (Edwards, K.M. et al.,1999, J. Biol. Chem. 274: 30468) . The specific activity is >200 pmol/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 ₂ 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-11 protein is speculated to be a potential multifunctional protease. It has been shown to efficiently cleave a kallikrein substrate called 'bz-Phe-Arg-4-methylcoumaryl-7-amide' and exhibits weak cleavage activity towards other substrates for kallikrein and trypsin. Notably, it primarily cleaves synthetic peptides after arginine residues rather than lysine residues.
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Caution: Product has not been fully validated for medical applications. For research use only.

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