**Proteins** 

## **Product** Data Sheet

# **CPVL Protein, Human (HEK293, His)**

Cat. No.: HY-P7818

Synonyms: rHuProbable serine carboxypeptidase CPVL, His; Probable serine carboxypeptidase CPVL;

Carboxypeptidase vitellogenic-like; Vitellogenic carboxypeptidase-like protein; VCP-like protein;

CPVL

Species: Human Source: HEK293

AAH16838.1 (L23-G476) Accession:

Gene ID: 54504 Molecular Weight: 54-65 kDa

### **PROPERTIES**

AA Sequence				
	L F R S L Y R S V S M P	PKGDSGQP	LFLTPYIEAG	KIQKGRELSL
	V G P F P G L N M K S Y	AGFLTVNK	TYNSNLFFWF	FPAQIQPEDA
	PVVLWLQGGP GG	SSMFGLFV	EHGPYVVTSN	MTLRDRDFPW
	TTTLSMLYID NP	VGTGFSFT	DDTHGYAVNE	DDVARDLYSA
	LIQFFQIFPE YK	NNDFYVTG	ESYAGKYVPA	IAHLIHSLNP
	V R E V K I N L N G I A	IGDGYSDP	ESIIGGYAEF	LYQIGLLDEK
	QKKYFQKQCH EC	ELEHIRKQN	WFEAFEILDK	LLDGDLTSDP
	SYFQNVTGCS NY	YNFLRCTE	PEDQLYYVKF	LSLPEVRQAI
	H V G N Q T F N D G T I	VEKYLRED	TVQSVKPWLT	EIMNNYKVLI
	Y N G Q L D I I V A A A	LTERSLMG	MDWKGSQEYK	KAEKKVWKIF
	K S D S E V A G Y I R Q	AGDFHQVI	IRGGGHILPY	DQPLRAFDMI
	N R F I Y G K G W D P Y	V G		
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.			
Appearance	Solution.			
Formulation	Consider a 2.0.2 cm filtered as lotter of 20 mM Tris UCL 150 mM NoCL 100/ Chronel mUZ 5			
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 7.5.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
	-110/			
Reconsititution	N/A			
Stavene O Stability	Ctored at 00°C for 1 years It is stable at 20°C for 2 months of the anoming It is recommended to 50°C for 1 years It is stable at 20°C for 2 months of the anoming It is recommended to 50°C for 1 years It is stable at 20°C for 2 months of the anoming It is recommended to 50°C for 1 years It is stable at 20°C for 2 months of the anoming It is recommended to 50°C for 1 years It is stable at 20°C for 2 months of the anoming It is recommended to 50°C for 2 months of the anoming It is recommended to 50°C for 1 years It is stable at 20°C for 2 months of the anoming It is recommended to 50°C for 1 years It is stable at 20°C for 2 months of the anoming It is recommended to 50°C for 2 months of the anoming It is recommended to 50°C for 2 months of the anoming It is recommended to 50°C for 2 months of the anoming It is recommended to 50°C for 2 months of the anoming It is recommended to 50°C for 2 months of the anoming It is recommended to 50°C for 2 months of the anoming It is recommended to 50°C for 2 months of the 30°C for 2 months of the anoming It is recommended to 50°C for 2 months of the 30°C for 30°C fo			
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.			
Shipping	Shipping with dry ice.			
kkp	omponis with any icc.			

#### **DESCRIPTION**

Page 1 of 2

#### Background

The CPVL protein, a serine carboxypeptidase, may be involved in the digestion of phagocytic granules in lysosomes, in the inflammatory protease cascade, and in the pruning of peptides for antigen presentation. Carboxypeptidases are a large family of proteases that cleave individual amino acids from the carboxyl terminus of proteins or peptides. The functions of these enzymes include the degradation of phagocytic and/or endocytosed proteins in lysosomes and the digestive breakdown of proteins in the intestine. In addition to their degradative functions in the intestine, carboxypeptidases can activate or inactivate bioactive peptides such as angiotensin, bradykinin, and endothelin I. CPVL protein expression is induced during the maturation of monocytes into macrophages. In macrophages, possible functions of CPVL include digestion of phagocytic granules in lysosomes, participation in inflammatory protease cascades, and pruning of peptides for antigen presentation. Studies have found that the expression of CPVL protein is significantly up-regulated in both neovascular AMD (nAMD) and dry AMD, making it a potential biomarker for identification of AMD. Furthermore, high CPVL expression was associated with advanced clinical grade and poor prognosis. CPVL silencing activates the IFN-γ/STAT1 signaling pathway, thereby promoting glioma cell apoptosis and inhibiting cell proliferation and tumorigenicity in vitro and in vivo.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA