Proteins



Product Data Sheet

PSMA Protein, Human (HEK293, His)

Cat. No.: HY-P70548

Synonyms: Glutamate carboxypeptidase 2; FGCP; GCPII; mGCP; NAALADase I; PSMA; Cell growth-inhibiting

gene 27 protein; Folate hydrolase 1

Species: Human Source: HEK293

Accession: Q04609 (K44-A750)

2346 Gene ID:

Molecular Weight: 90-120 kDa

PROPERTIES

AA Sequence	W 0 0 N 5 A 7 N 4 7			
		PKHNMKAFLD	ELKAENIKKF	LYNFTQIPHL
		KQIQSQWKEF	GLDSVELAHY	DVLLSYPNKT
		DGNEIFNTSL	FEPPPGYEN	VSDIVPPFSA
		LVYVNYARTE	DFFKLERDMK	INCSGKIVIA
		VKNAQLAGAK	GVILYSDPAD	YFAPGVKSYP
		QRGNILNLNG	AGDPLTPGYP	ANEYAYRRGI
		VHPIGYYDAQ	KLLEKMGGSA	PPDSSWRGSL
	KVPYNVGPGF	TGNFSTQKVK	MHIHSTNEVT	RIYNVIGTLR
	GAVEPDRYVI	LGGHRDSWVF	GGIDPQSGAA	VVHEIVRSFG
		RTILFASWDA	EEFGLLGSTE	WAEENSRLLQ
	ERGVAYINAD	SSIEGNYTLR	VDCTPLMYSL	VHNLTKELKS
	PDEGFEGKSL	YESWTKKSPS	PEFSGMPRIS	KLGSGNDFEV
	FFQRLGIASG	RARYTKNWET	NKFSGYPLYH	SVYETYELVE
	KFYDPMFKYH	$L \; T \; V \; A \; Q \; V \; R \; G \; G \; M$	VFELANSIVL	PFDCRDYAVV
	LRKYADKIYS	ISMKHPQEMK	TYSVSFDSLF	SAVKNFTEIA
	SKFSERLQDF	DKSNPIVLRM	MNDQLMFLER	AFIDPLGLPD
	RPFYRHVIYA	PSSHNKYAGE	SFPGIYDALF	DIESKVDPSK
	AWGEVKRQIY	VAAFTVQAAA	ETLSEVA	
Biological Assista	The common of the follow			· · · · · · · · · · · · · · · · · · ·
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.			
Appearance	Solution.			
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM MES, 150 mM NaCl, 5% Trehalose, pH 5.5.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Endotoxiii Eevet	2 20/pg, determined by E.E. mediod.			
Reconsititution	N/A			
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

DESCRIPTION

Background

PSMA, a multifaceted enzyme, showcases both folate hydrolase and N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activities, displaying a notable preference for tri-alpha-glutamate peptides. It plays a crucial role in the intestinal uptake of folate, contributing to essential metabolic processes. Within the brain, PSMA acts as a modulator of excitatory neurotransmission by hydrolyzing the neuropeptide N-acetylaspartylglutamate (NAAG), leading to the release of glutamate. Notably, PSMA's involvement in prostate tumor progression highlights its potential significance in cancer biology. Additionally, the enzyme exhibits dipeptidyl-peptidase IV type activity and effectively cleaves Gly-Pro-AMC in vitro, further emphasizing its diverse enzymatic functions.

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