

Product Data Sheet

Carboxypeptidase B2/CPB2 Protein, Human (HEK293, His)

Cat. No.:	HY-P7735
Synonyms:	rHuCarboxypeptidase B2, His; Carboxypeptidase B2; Carboxypeptidase U; Plasma Carboxypeptidase B; Thrombin-Activable Fibrinolysis Inhibitor; CPB2
Species:	Human
Source:	HEK293
Accession:	Q96IY4 (F23-V423)
Gene ID:	1361
Molecular Weight:	Approximately 58.0 kDa

PROPERTIES

AA Sequence				
/ a cooqueriee	FQSGQVLAAL	P R T S R Q V Q V L	QNLTTTYEIV	LWQPVTADLI
	V K K K Q V H F F V	NASDVDNVKA	HLNVSGIPCS	VLLADVEDLI
	QQQISNDTVS	PRASASYYEQ	YHSLNEIYSW	IEFITERHPD
	MLTKIHIGSS	FEKYPLYVLK	VSGKEQAAKN	AIWIDCGIHA
	REWISPAFCL	WFIGHITQFY	GIIGQYTNLL	RLVDFYVMPV
	VNVDGYDYSW	KKNRMWRKNR	SFYANNHCIG	TDLNRNFASK
	HWCEEGASSS	SCSETYCGLY	PESEPEVKAV	ASFLRRNINQ
	IKAYISMHSY	SQHIVFPYSY	TRSKSKDHEE	LSLVASEAVR
	AIEKISKNTR	YTHGHGSETL	YLAPGGGDDW	IYDLGIKYSF
	TIELRDTGTY	GFLLPERYIK	PTCREAFAAV	SKIAWHVIRN
	VНННННН			
Biological Activity	The enzyme activity of thi	s recombinant protein is tes	ting in progress, we cannot o	offer a guarantee yet.
Appearance	Solution.			
Fammalation			150 mM NoCl 1 mM 7mCl 1	
Formulation	Supplied as a 0.2 µm filter	Solution of 20 mm Tris-HCl,	150 mm Naci, 1 mm Znci ₂ , 1	0% Glycerol, pH 7.5.
Fundatasia Laural	a culo da contra de la			
Endotoxin Level	<1 EU/µg, determined by	LAL method.		
Deconsititution	N1/A			
Reconstitution	N/A			
Storago & Stability	Stared at 80°C for 1 year	It is stable at 20°C for 2 may	athe after epoping. It is recei	mmonded to freeze aliquete at 90°C for
Storage & Stability	ovtondod storago. Avoid r	aposted fronzo thaw cyclos	intris arter openning. It is recor	innended to neeze anquots at -80 C for
	exteriueu storage. Avolu l	epeated neeze-thaw cycles.		
Shinning	Shipping with dry ico			
Sinbhing	Shipping with dry ite.			

DESCRIPTION

Background

Carboxypeptidase B2 is a secreted glycoprotein member of the peptidase M14 family of enzymes. It is expressed by hepatocytes and platelets, with MW differences attributable to glycosylation. CPB2 can be cleaved by thrombin and plasmin, generating a relatively insoluble nonglycosylated enzymatically active fragment (TAFIa). Active CPB2 removes Cterminal Lys residues from fibrin, thereby interrupting plasmin generation and promoting fibrin polymerization. Human CPB2 proprecursor is 401 amino acids (aa) in length. It contains a prosequence (aa 23-114) and an active fragment (aa 115-423) that acts on C-terminal Lys or Arg residues^{[1][2]}.

REFERENCES

[1]. D Leenaerts, et al. Carboxypeptidase U (CPU, carboxypeptidase B2, activated thrombin-activatable fibrinolysis inhibitor) inhibition stimulates the fibrinolytic rate in different in vitro models. J Thromb Haemost. 2018 Oct;16(10):2057-2069.

[2]. D Leenaerts, et al. Plasma levels of carboxypeptidase U (CPU, CPB2 or TAFIa) are elevated in patients with acute myocardial infarction. J Thromb Haemost. 2015 Dec;13(12):2227-32.

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

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