

Product Data Sheet

ACE/CD143 Protein, Human (His)

Cat. No.: HY-P7992

Synonyms: ACE, CD143, DCP, DCP1

Species: Human Source: E. coli

Accession: P12821 (L642-S1230)

Gene ID: 1636

Molecular Weight: Approximately 68.0 kDa

PROPERTIES

AA C				
AA Sequence	LVTDEAEAS	KFVEEYDRTS	QVVWNEYAEA	NWNYNTNITT
	ETSKILLQKN	MQIANHTLKY	GTQARKFDVN	QLQNTTIKRI
	IKKVQDLERA	ALPAQELEEY	NKILLDMETT	YSVATVCHPN
	GSCLQLEPDL	TNVMATSRKY	EDLLWAWEGW	RDKAGRAILQ
	FYPKYVELIN	QAARLNGYVD	AGDSWRSMYE	TPSLEQDLER
	LFQELQPLYL	NLHAYVRRAL	HRHYGAQHIN	LEGPIPAHLL
	GNMWAQTWSN	IYDLVVPFPS	APSMDTTEAM	LKQGWTPRRM
	FKEADDFFTS	LGLLPVPPEF	WNKSMLEKPT	DGREVVCHAS
	AWDFYNGKDF	RIKQCTTVNL	EDLVVAHHEM	GHIQYFMQYK
	DLPVALREGA	NPGFHEAIGD	VLALSVSTPK	HLHSLNLLSS
	EGGSDEHDIN	FLMKMALDKI	AFIPFSYLVD	QWRWRVFDGS
	ITKENYNQEW	WSLRLKYQGL	CPPVPRTQGD	FDPGAKFHIP
	SSVPYIRYFV	SFIIQFQFHE	ALCQAAGHTG	PLHKCDIYQS
	KEAGQRLATA	MKLGFSRPWP	EAMQLITGQP	NMSASAMLSY
	FKPLLDWLRT	ENELHGEKLG	WPQYNWTPNS	
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 filter solution of PBS, 2M Urea, pH 7.4.			
Endotoxin Level	<1 EU/µg, determined by LAL method.			
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.			

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DESCRIPTION

Background

ACE is a Zn^{2+} carboxydipeptidase which plays a key role in the regulation of blood pressure and also in the development of vascular pathologies and tissue remodeling. ACE is expressed as two isoforms: somatic ACE (sACE), which is responsible for its hypertensive properties, and a smaller isoform (testicular ACE), which is expressed solely in germinal cells^[1].

REFERENCES

[1]. Danilov SM, et al. Angiotensin I-converting enzyme Gln1069Arg mutation impairs trafficking to the cell surface resulting in selective denaturation of the C-domain. PLoS One. 2010;5(5):e10438. Published 2010 May 3.

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

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