Datasheet for ABIN7195505

ECE2 Protein (His tag)

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Overview

Quantity:	10 µg
Target:	ECE2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ECE2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ECE-2 Protein (His Tag)
Sequence:	Gly 199-Trp 883
Characteristics:	A DNA sequence encoding the ectodomain of human endothelin converting enzyme 2 isoform A (NP_055508.3) (Gly 199-Trp 883) was fused with a polyhistidine tag at the N-terminus.
Purity:	> 93 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	ECE2
Alternative Name:	ECE-2 (ECE2 Products)
Background:	Background: Endothelin-converting enzyme 2, also known as ECE-2, is a metalloprotease that possesses many properties consistent with it being a neuropeptide-processing enzyme. Endothelin-converting enzymes (ECEs) are the key enzymes in the endothelin (ET) biosynthesis

Target Details

	that catalyze the conversion of big ET, the biologically inactive precursor of mature ET. Two enzymes, termed ECE-1 and ECE-2, have been molecularly identified. ECE-2 is found primarily in neural tissues, with high levels of expression in midbrain, cerebellum, hypothalamus, frontal cortex and spinal cord and moderate levels in hippocampus and striatum. ECE-2 is strongly down-regulated in inferior parietal lobe from Alzheimer disease patients (at protein level). ECE-2 converts big endothelin-1 to endothelin-1. It is involved in the processing of various neuroendocrine peptides, including neurotensin, angiotensin I, substance P, proenkephalin-derived peptides, and prodynorphin-derived peptides. ECE-2 may limit beta-amyloid peptide accumulation in brain. It may also have methyltransferase activity. A comparison of residues around the cleavage site revealed that ECE-2 exhibits a unique cleavage site selectivity that is related to but distinct from that of ECE-1. Synonym: ECE2,hCG_2022032,KIAA0604,MGC17664,MGC2408,MGC78487
Molecular Weight:	80.2 kDa
NCBI Accession:	NP_055508
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.