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Datasheet for ABIN7195504

ECE2 Protein (Fc Tag)



Overview

Background:

Quantity:	50 μg
Target:	ECE2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ECE2 protein is labelled with Fc Tag.
Product Details	
Purpose:	Recombinant Human ECE-2 Protein (Fc 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 the Fc region of human IgG1 at the N-terminus.
Purity:	> 95 % 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: 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 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, proenkephalinderived 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: 105 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 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5
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.