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# **Recombinant Human ECE-2 Protein (His Tag)**

Catalog No. PKSH031761

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## Description

**Synonyms** ECE2;hCG 2022032;KIAA0604;MGC17664;MGC2408;MGC78487

**Species** Human

HEK293 Cells **Expression Host** Gly 199-Trp 883 Sequence Accession NP\_055508.3 Calculated Molecular Weight 80.2 kDa Observed molecular weight 120-125 kDa

**Bioactivity** Not validated for activity

### **Properties**

Tag

**Purity** > 93 % as determined by reducing SDS-PAGE.

N-His

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

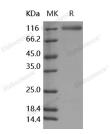
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

#### Data



> 93 % as determined by reducing SDS-PAGE.

# **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

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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; 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.

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