ECE-2 Protein, Human (HEK293, hFc)

Cat. No.:	HY-P75267
Synonyms:	EEF1AKMT4-ECE2 readthrough transcript protein; EEF1AKMT4-ECE2; ECE2
Species:	Human
Source:	HEK293
Accession:	P0DPD8 (G199-W883)
Gene ID:	110599583
Molecular Weight:	120-130 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The ECE-2 protein is an essential enzyme with dual functionality. Primarily, it plays a crucial role in converting big endothelin-1 to endothelin-1, a biologically active peptide involved in the regulation of vascular tone and blood pressure. In addition to its role in the endothelin system, ECE-2 exhibits potential methyltransferase activity, implying its involvement in the transfer of methyl groups between molecules. Moreover, there is a suggested role for ECE-2 in amyloid-beta processing, indicating a possible association with processes related to neurodegenerative conditions. The multifaceted nature of ECE-2's activities underscores its significance in both cardiovascular physiology, through endothelin processing, and potential contributions to molecular events associated with neurodegenerative disorders (

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