



ECE-2 Protein, Human (HEK293, His)

Cat. No.: HY-P75266

Synonyms: EEF1AKMT4-ECE2 readthrough transcript protein; EEF1AKMT4-ECE2; ECE2

Species: Human Source: HEK293

Accession: P0DPD8/NP_055508.3 (G199-W883)

Gene ID: 110599583

Molecular Weight: Approximately 120-125 kDa due to the glycosylation.

PROPERTIES

AA Sequence	GVQYHRDPSH STCLTEACIR VAGKILESLD RGVSPCEDFY QFSCGGWIRR NPLPDGRSRW NTFNSLWDQN QAILKHLLEN TTFNSSSEAE QKTQRFYLSC LQVERIEELG AQPLRDLIEK IGGWNITGPW DQDNFMEVLK AVAGTYRATP FFTVYISADS KSSNSNVIQV DQSGLFLPSR DYYLNRTANE KVLTAYLDYM EELGMLLGGR PTSTREQMQQ VLELEIQLAN ITVPQDQRRD EEKIYHKMSI SELQALAPSM DWLEFLSFLL SPLELSDSEP VVVYGMDYLQ QVSELINRTE PSILNNYLIW NLVQKTTSSL DRRFESAQEK LLETLYGTKK SCVPRWQTCI SNTDDALGFA LGSLFVKATF DRQSKEIAEG MISEIRTAFE EALGQLVWMD EKTRQAAKEK ADAIYDMIGF PDFILEPKEL DDVYDGYEIS EDSFFQNMLN LYNFSAKVMA DQLRKPPSRD QWSMTPQTVN AYYLPTKNEI VFPAGILQAP FYARNHPKAL NFGGIGVVMG HELTHAFDDQ GREYDKEGNL RPWWQNESLA AFRNHTACME EQYNQYQVNG ERLNGRQTLG ENIADNGGLK AAYNAYKAWL RKHGEEQQLP AVGLTNHQLF FVGFAQVWCS VRTPESSHEG LVTDPHSPAR FRVLGTLSNS RDFLRHFGCP VGSPMNPGQL
Biological Activity	Measured by its ability to cleave a peptide substrate, Mca-RPPGFSAFK(Dnp)-OH. Read at excitation and emission wavelengths of 320 nm and 405 nm (top read). The specific activity is $6005.388 \text{ pmol/min/}\mu\text{g}$, as measured under the described conditions.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Page 1 of 2

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 (

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA