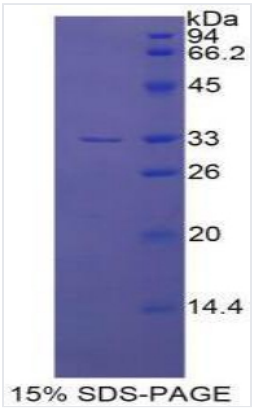
Endothelin Converting Enzyme 1 (ECE1) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Endothelin Converting Enzyme 1 (ECE1), Recombinant Protein
Full Product Name	Recombinant Endothelin Converting Enzyme 1 (ECE1)
Product Gene Name	ECE1 recombinant protein
Host	E.coli
Form/Format	Freeze-dried powder; 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Purity/Purification	> 90%
Concentration	200ug/mL (lot specific)
Preparation and Storage	**Storage:** Avoid repeated freeze/thaw cycles. Store at 2-8ºC for one month. Aliquot and store at -80ºC for 12 months. **Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: ECE1 (MBS2004286) Immunogen: ECE1 (MBS2009889)
Matching Pairs	APC-CY7 Conjugated Antibody: ECE1 (MBS2042949) Immunogen: ECE1 (MBS2009889)
Matching Pairs	PE Conjugated Antibody: ECE1 (MBS2042950) Immunogen: ECE1 (MBS2009889)
Matching Pairs	APC Conjugated Antibody: ECE1 (MBS2042951) Immunogen: ECE1 (MBS2009889)
Matching Pairs	Cy3 Conjugated Antibody: ECE1 (MBS2042952) Immunogen: ECE1 (MBS2009889)
Matching Pairs	FITC Conjugated Antibody: ECE1 (MBS2042953) Immunogen: ECE1 (MBS2009889)
Matching Pairs	HRP Conjugated Antibody: ECE1 (MBS2042954) Immunogen: ECE1 (MBS2009889)
Matching Pairs	Biotin Conjugated Antibody: ECE1 (MBS2092057) Immunogen: ECE1 (MBS2009889)
Molecular Weight	Predicted Molecular Mass: 32.7kDa Accurate Molecular Mass: 30kDa as determined by SDS-PAGE reducing conditions.
Chromosome Location	Chromosome: 1; NC_000001.10 (21543740..21672034, complement). Location: 1p36.1
OMIM	600423
3D Structure	ModBase 3D Structure for P42892
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.

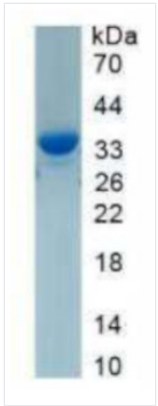
Source	Prokaryotic expression
Residues	Leu469~Glu721
Tags	N-terminal His Tag
Subcellular Location	Membrane
Predicted isoelectric point	6.8
Reconstitute	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for ECE1 recombinant protein	Positive Control, Immunogen, SDS-PAGE, Western Blot (WB)
Application Notes for ECE1 recombinant protein	(May be suitable for use in other assays to be determined by the end user.)
Related Product Information for ECE1 recombinant protein	MBS2009889 is a recombinant protein targeting ECE1. Also known as Recombinant Endothelin Converting Enzyme 1 (ECE1). Host: E.coli.
Other Notes	Small volumes of ECE1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-PAGE (SDS) of ECE1 recombinant protein

LE IKKAFEESLS
TLKWMDEETR KSAKEKADAI YNMIGYPNFI MDPKELDKVF NDYTAVPDLY FENAMRFFNF
SWRVTADQLR KAPNRDQWSM TPPMVNAYYS PTKNEIVFPA GILQAPFYTR SSPKALNFGG
IGVVVGHELT HAFDDQGREY DKDGNLRPWW KNSSVEAFKR QTECMVEQYS NYSVNGEPVN
GRHTLGENIA DNGGLKAAYR AYQNWVKKNG AEHSLPTLGL TNNQLFFLGF AQVWCSVRTP
E

Sequence of ECE1 recombinant protein



SDS-PAGE (SDS) of ECE1 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ECE1. It may not necessarily be applicable to this product.

NCBI GI #	164519136
NCBI GeneID	1889

NCBI Accession #	NP_001106818.1
UniProt Primary Accession #	P42892
UniProt Secondary Accession #	Q14217; Q17RN5; Q2Z2K8; Q58GE7; Q5THM5; Q5THM7; Q5THM8; Q9UJQ6; Q9UPF4; A8K3P1; B4E291
UniProt Related Accession #	P42892
GenBank Nucleotide #	NM_001113347.1
NCBI Official Full Name	endothelin-converting enzyme 1 isoform 3
NCBI Official Synonym Full Names	endothelin converting enzyme 1
NCBI Official Symbol	ECE1
NCBI Official Synonym Symbols	ECE
UniProt Protein Name	Endothelin-converting enzyme 1
Protein Family	Endothelin-converting enzyme
UniProt Gene Name	ECE1
UniProt Synonym Gene Names	ECE-1
UniProt Entry Name	ECE1_HUMAN
NCBI Protein Information	endothelin-converting enzyme 1; ECE-1
NCBI Summary for ECE1	The protein encoded by this gene is involved in proteolytic processing of endothelin precursors to biologically active peptides. Mutations in this gene are associated with Hirschsprung disease, cardiac defects and autonomic dysfunction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Sep 2009]
UniProt Comments for ECE1	ECE1: Converts big endothelin-1 to endothelin-1. Defects in ECE1 are a cause of Hirschsprung disease cardiac defects and autonomic dysfunction (HSCRCDAD). It is a form of Hirschsprung disease with skip-lesions defects, craniofacial abnormalities and other dysmorphic features, and autonomic dysfunction. Belongs to the peptidase M13 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Vesicle; EC 3.4.24.71; Protease; Cell surface Chromosomal Location of Human Ortholog: 1p36.1 Cellular Component: membrane; perinuclear region of cytoplasm; lysosomal membrane; early endosome; plasma membrane; integral to membrane; vesicle; endosome; external side of plasma membrane Molecular Function: protein homodimerization activity; metal ion binding; peptide hormone binding; metalloendopeptidase activity; endopeptidase activity Biological Process: pharyngeal system development; regulation of systemic arterial blood pressure by endothelin; heart development; regulation of vasoconstriction; peptide hormone processing; ear development; hormone catabolic process; protein processing; embryonic digit morphogenesis; proteolysis; positive regulation of receptor recycling Disease: Hirschsprung Disease, Cardiac Defects, And Autonomic Dysfunction; Hypertension, Essential
Research Articles on ECE1	**1.** Endothelin-converting enzymes degrade intracellular beta-amyloid produced within the endosomal/lysosomal pathway and autophagosomes
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