

## 32-7538: Recombinant Human Endothelin-converting Enzyme 1/ECE-1 (N-8His)

**Gene :** ECE1  
**Gene ID :** 1889  
**Uniprot ID :** P42892

### Description

Source: Human Cells.  
MW :78.8kD.

Recombinant Human Endothelin-converting Enzyme 1 is produced by our Mammalian expression system and the target gene encoding Gln90-Trp770 is expressed with a 8His tag at the N-terminus. Endothelin-Converting Enzyme-1 (ECE-1) is a single-pass type I transmembrane (TM) protein with a short cytoplasmic tail and a large ectodomain. ECE-1 is a zinc protease of the neprilysin (NEP) family, which also includes ECE-2, PEX, XCE, DINE, and Kell, and several NEP-like proteins. It is widely expressed and has several alternatively spliced forms that differ in their TM domain or cytoplasmic tail. All isoforms of ECE-1 are expressed in umbilical vein endothelial cells, polynuclear neutrophils, fibroblasts, atrium cardiomyocytes and ventricles. Endothelin-converting enzyme-1 is involved in the proteolytic processing of Endothelin-1 (EDN1), Endothelin-2 (EDN2), and Endothelin-3 (EDN3) to biologically active peptides. Defects in ECE1 are a cause of Hirschsprung disease, cardiac defects and autonomic dysfunction (HSCRCAD). It is a form of Hirschsprung disease with skip-lesions defects, craniofacial abnormalities and other dysmorphic features, and autonomic dysfunction.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** HHHHHHHHHQYQTRSPSVCLSEACVSVTSSILSSMDPTVDPCHDFFSYACGGWIKANPVPDGHSRWGTFSNL  
WEHNQAIKHLLNSTASVSEAEKAQVYYRACMNTRIIEELRAKPLMELIERLGGWNITGPWAKDNFQDTLQV  
VTAHYRTSPFFSVYVSADSKNSNSNVIQVDQSGGLPSRDYYLNKTENEKVLTYLNYMVQLGKLLGGGDEEAI  
RPQMQQILDFETALANITIPQEKRRDEELIYHKVTAAELQTLAPAINWLPFLNTIFYPVEINESEPIVVYDKEYLEQIS  
TLINTDRCLLNMYMIWNLVRKTSSFLDQRFQDADEKFMEVMYGTCKTCLPRWKFCVSDTENNLGFGALGPMFV  
KATFAEDSKSIATEIILEIKKAFEESSLTKWMDDETRKSAKEKADAIYNMIGYPNFIMDPKELDKVFNDYTAVPDL  
YFENAMRFFNFSWRVTADQLRKAPNRDQWSMTPPMVNAYYSPTKNEIVFAPILQAPFYTRSSPKALNFGGIG  
VVVGHELTHAFDDQGREYDKDGNLRPWWKNSSVEAFKRQTECMVEQYSNYSVNGEPVNGRHTLGENIADN  
GGLKAAAYRAYQNWWKNGAEHSLPTLGLTNNQLFFLGFAQVWCSVRTPESSHEGLITDPHSPSRFRVIGLSLN  
SKEFSEHFRCPGSPMNPCHKCEVW

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.