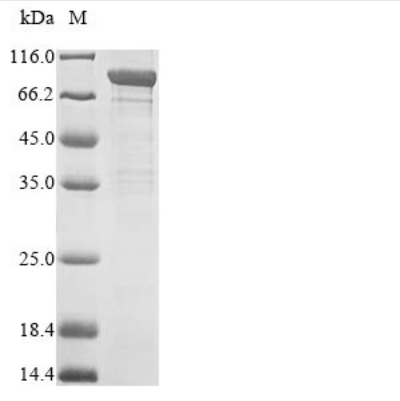
Recombinant Human Acylamino-acid-releasing enzyme (APEH)

Product Code	CSB-EP001899HU
Relevance	This enzyme catalyzes the hydrolysis of the N-terminal peptide bond of an N-acetylated peptide to generate an N-acetylated amino acid and a peptide with a free N-terminus. It preferentially cleaves off Ac-Ala, Ac-Met and Ac-Ser.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P13798
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MERQVLLSEPEEAAALYRGLSRQPALSAACLGPEVTTQYGGQYRTVHTEWTQ RDLERMENIRFCRQYLVFHDGDSVVFAGPAGNSVETRGELLSRESPSGTMKA VLRKAGGTGPGEEKQFLEVWEKNRKLKSFNLSALEKHGPVYEDDCFGCLSW SHSETHLLYVAEKKRPKAESFFQTKALDVSASDDEIARLKKPDQAIKGDQFVFY EDWGENMVSKSIPVLCVLDVESGNISVLEGVPENVSPGQAFWAPGDAGVVFV GWWHEPFRLGIRFCTNRRSALYYVDLIGGKCELLSDDSLAVSSPRLSPDQCRI VYLQYPSLIPHHQCSQLCLYDWYTKVTSVVVDVVPRQLGENFSGIYCSLLPLG CWSADSQRVVFDSAQRSRQDLFAVDTQVGTVTSLTAGGSGGSWKLLTIDQDL MVAQFSTPSLPPTLKVGFLPSAGKEQSVLWVSLEEAEPIPDIHWGIRVLQPPPE QENVQYAGLDFEAILLQPGSPPDKTQVPMVVMPHGGPHSSFVTAWMLFPAML CKMGFAVLLVNYRGSTGFGQDSILSLPGNVGHQDVKDVQFAVEQVLQEEHFD ASHVALMGGSHGGFISCHLIGQYPETYRACVARNPVINIASMLGSTDIPDWCV VEAGFPFSSDCLPDLSVWAEMLDKSPIRYIPQVKTPLLLMLGQEDRRVPFKQG MEYYRALKTRNVPVRLLLYPKSTHALSEVEVESDSFMNAVLWLRTHLGS
Lead Time	3-7 business days
Research Area	Others
Source	E.coli
Gene Names	APEH
Protein Names	Acyl-peptide hydrolase (APH) (Acylaminoacyl-peptidase) (Oxidized protein hydrolase) (OPH) (D3F15S2) (D3S48E) (DNF15S2)
Expression Region	1-732aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged

Mol. Weight	85.2 kDa
Protein Description	Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

CUSABIO synthesized the recombinant gene by integrating the N-terminal 6xHis tag sequence into the targeted gene encoding the 1-732aa of the human APEH. The synthesized gene was subsequently cloned into an expression vector. After cloning, the expression vector was introduced into the E.coli for expression. The product was purified to obtain the recombinant human APEH protein carrying N-terminal 6xHis tag. The SDS-PAGE assayed the purity of this recombinant APEH protein greater than 85%. This APEH protein migrated along the gel to a band of about 90 kDa molecular weight.

APEH is a gene providing instruction of making a protein called acylamino-acid-releasing enzyme in human and belongs to peptidase S9C family. This protein, also abbreviated APH or AARE, is a tetrameric serine protease which specifically removes acetyl amino acids from N-terminally acetylated peptides and play an important role in destroying oxidatively-damaged proteins in living cells. APH preferentially cleaves off Ac-Ala, Ac-Met and Ac-Ser. Deletions of this gene locus are found in various types of carcinomas, including small-cell lung carcinoma and renal cell carcinoma.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.