

Recombinant Human APEH protein, GST-tagged

Cat. No. APEH-676H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human APEH full-length ORF (NP_001631.3, 1 a.a. - 732 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes the enzyme acylpeptide hydrolase, which catalyzes the hydrolysis of the terminal acetylated amino acid preferentially from small acetylated peptides. The acetyl amino acid formed by this hydrolase is further processed to acetate and a free amino acid by an aminoacylase. This gene is located within the same region of chromosome 3 (3p21) as the aminoacylase gene, and deletions at this locus are also associated with a decrease in aminoacylase activity. The acylpeptide hydrolase is a homotetrameric protein of 300 kDa with each subunit consisting of 732 amino acid residues. It can play an important role in destroying oxidatively damaged proteins in living cells. Deletions of this gene locus are found in various types of carcinomas, including small cell lung carcinoma and renal cell carcinoma. [provided by RefSeq, Jul 2008]
Molecular Mass	107.6 kDa
AA Sequence	MERQVLLSEPEEAAAALYRGLSRQPALSAACLGPEVTTQYGGQYRTVHTEWTQRDL ERMENIRFCRQYLVFHDGDSVVFAGPAGNSVETRGELLSRESPSGTMKAVLRKAG GTGPGEEKQFLEVWEKNRKLKSFNLSALEKHGPVYEDDCFGCLSWSHSETHLLYV

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AEKKRPKAESFFQTKALDVSASDDEIARLKKPDQAIKGDQFVFYEDWGENMVSKSIP
 VLCVLDVESGNISVLEGVPENVSPGQAFWAPGDAGVVFVGWWHEPFRLGIRFCTN
 RRSALYYVDLIGGKCELLSDDSLAVSSPRLSPDQCRIVYLQYPSLIPHHQCSQLCLYD
 WYTKVTSVVVDVPRQLGENFSGIYCSLLPLGCWSADSQRVVFDSAQRSRQDLFA
 VDTQVGTVTSLTAGGSGGSWKLLTIDQDLMVAQFSTPSLPPTLKVGFLPSAGKEQS
 VLWVSLEEAEPIDIHWGIRVLQPPPEQENVQYAGLDFAILLQPGSPDPKTQVPMV
 VMPHGGPHSSFTAWMLFPAMLCKMGFAVLLVNYRGSTGFGQDSILSLPGNVGHQ
 DVKDVQFAVEQVLQEEHFDASHVALMGGSHGGFISCHLIGQYPETYRACVARNPVI
 NIASMLGSTDIPDWCVVEAGFPFSSDCLPDLVWAEMLDKSPIRYIPQVKTPLLLMLG
 QEDRRVPFKQGM EYYRALKTRNVPVRLLLYPKSTHALSEVEVESDSFMNAVLWLRT
 HLGS

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[APEH N-acylaminoacyl-peptide hydrolase \[Homo sapiens \]](#)

Official Symbol

[APEH](#)

Synonyms

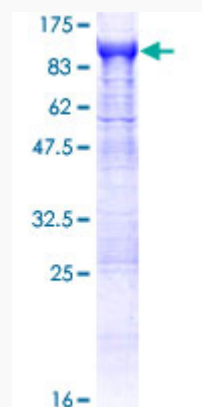
APEH; N-acylaminoacyl-peptide hydrolase; D3F15S2, D3S48E, DNF15S2;
 acylamino-acid-releasing enzyme; acyl-peptide hydrolase; acylaminoacyl-peptidase;
 oxidized protein hydrolase; APH; OPH; AARE; ACPH; D3S48E; D3F15S2; DNF15S2;
 MGC2178;

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Gene ID	327
mRNA Refseq	NM_001640
Protein Refseq	NP_001631
MIM	102645
UniProt ID	P13798



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