

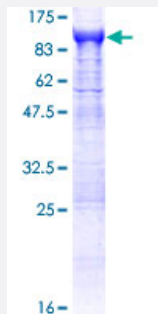
Full-Length

APEH (Human) Recombinant Protein (P01)

Catalog # H00000327-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human APEH full-length ORF (NP_001631.3, 1 a.a. - 732 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MERQVLLSEPEEAAALYRGLSRQPALSAACLGPEVTTQYGGQYRTVHTEWTQRDLERMENIRFC
RQYLVFHDGDSVVFAGPAGNSVETRGEILLSRESPSGTMKAVLRKAGGTGPGEEKQFLEVWEKN
RKLKSFNLSALEKHGPVYEDDCFGCLSWSHSETHLLYAEKKRPKAESFFQTKALDVSASDDEI
ARLKKPDQAIKGDQFVFYEDWGENMVSKSIPVLCVLDVESGNISVLEGVPENVSPGQAFWAPGD
AGVVFVGWWHEPFRLGIRFCTNRRSALYYDLIGGKCELLSDDSLAVSSPRLSPDQCRMVYLQYP
SLIPHHQCSQLCLYDWYTKVTSVVVDVPRQLGENFSGIYCSLLPLGCWSADSQRVVFDSAQRS
RQDLFAVDTQVGTVTSLTAGSGGSWKLLTIDQDLMVAQFSTPSLPPTLKVGFLPSAGKEQSVL
WVSLEEAEPIDIHGIRVLQPPPEQENVQYAGLDFAILLQPGSPDKTQVPMVVMPPHGGPHS
SFVTAWMLFPAMLCKMGFAVLLVNYRGSTGFGQDSILSLPGNVGHQDVKDQVQFAVEQVLQEEH
FDASHVALMGGSHGGFISCHLIGQYPETYRACVARNPVINIASMLGSTDIPDWCVVEAGFPFSSDC
LPDLSVWAEMLDKSPIRYIPQVKTPLLLMLGQEDRRVPFKQGMEEYRALKTRNPVRLLLYPKSTH
ALSEVEVESDSFMNAVLWLRTHLGS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

107.6

Interspecies Antigen Sequence

Mouse (91); Rat (92)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — APEH

Entrez GeneID	327
GeneBank Accession#	NM_001640.3
Protein Accession#	NP_001631.3
Gene Name	APEH
Gene Alias	ACPH, APH, D3F15S2, D3S48E, DNF15S2, MGC2178, OPH
Gene Description	N-acylaminoacyl-peptide hydrolase
Omim ID	102645
Gene Ontology	Hyperlink

Gene Summary

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]

Other Designations

acylaminoacyl-peptidase|oxidized protein hydrolase

Disease

- [Crohn Disease](#)
- [Genetic Predisposition to Disease](#)