

# Recombinant human ACY3 protein

Catalog Number: ATGP1136

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-319aa

### UniProt No.

Q96HD9

### NCBI Accession No.

NP\_542389

### Alternative Names

Aspartoacylase 3, ACY-3, HCBP1, Aminoacylase-3

## PRODUCT SPECIFICATION

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### Molecular Weight

37.6 kDa (342aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Aspartoacylase 3, also known as ACY3, is member of the Aspartoacylase subfamily. It plays an important role in deacetylating mercapturic acids in kidney proximal tubules. ACY3 localizes to the cytoplasm of S2 and S3 proximal tubules and to the apical domain of S1 proximal tubules. ACY3 protein is also expressed at low levels in stomach, testis, heart, brain, lung and liver, and may function as an HCV (Hepatitis C virus) core binding protein. Recombinant human ACY3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

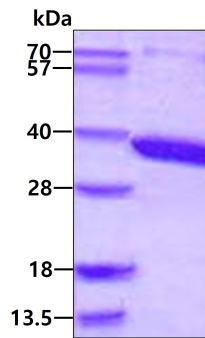
<MGSSHHHHH SSGLVPRGSH MGS>MCSLPVP REPLRRVAVT GGTHGNEMSG VYLARHWLHA PAELQRASFS  
AVPVLANPAA TSGCRRYVDH DLNRTFTSSF LNSRPTDDP YEVTRARELN QLLGPKASGQ AFDFVLDLHN TTANMGTCCLI  
AKSSHEVFAM HLCRHLQLQY PELSCQVFLY QRSGEESYNL DSVAKNGLGL ELGPQPQGV L RADIFSRMRT LVATVLDLFI  
LFNQGTAFPA FEMEAYRPVG VVDFPRTEAG HLAGTVHPQL QDRDFQPLQP GAPIFQMFSG EDLLYEGEST VYPVFINEAA  
YYEKGVAHVQ TEKFTFTVPA MPALTPAPSP AS

## General References

Chen Y R., et al. (2009) J Gastroenterol Hepatol. 24(7):1300-4.  
Pushkin A., et al. (2004). Am J Physiol Cell Physiol. 286(4):C848-56.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.