

Recombinant Human ACY3, His-tagged

Cat. No. ACY3-3577H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ACY3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-319 aa).
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
Molecular Weight	37.6 kDa (342aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMCSLPVP REPLRRVAVT GGTHGNEMSG VYLARHWLHA PAELQRASFS AVPVLNPAA TSGCRRYVDH DLNRTFTSSF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LNSRPTDDP YEVTARELN QLLGPKASGQ AFDFVLDLHN TTANMGTCI
 AKSSHEVFAM HLCRHLQLQY PELSCQVFLY QRSGEESYNL DSVAKNGLGL
 ELGPQPQGV L RADIFSRMRT LVATVLDIE LFNQGTAFPA FEMEAYRPVG
 VVDFPRTEAG HLAGTVHPQL QDRDFQPLQP GAPIFQMFSG EDLLYEGEST
 VYPVFINEAA YYEKGVAHVQ TEKFTFTVPA MPALTPAPSP AS

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

ACY3 aspartoacylase (aminocyclase) 3 [Homo sapiens]

Official Symbol

ACY3

Synonyms

ACY3; ACY-3; HCBP1; MGC9740; aspartoacylase (aminocyclase) 3; aspartoacylase-2; acylase III; aminoacylase-3; OTTHUMP00000235614; ASPA2; OTTHUMP00000235615; hepatitis C virus core-binding protein 1; EC 3.5.1.15; Aspartoacylase-2; EC=3.5.1.-; Acylase III; Aminoacylase-3; Hepatitis C virus core-binding protein 1;

Gene ID

91703

mRNA Refseq

NM_080658

Protein Refseq

NP_542389

UniProt ID

Q96HD9

Chromosome Location

11q13.2

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Function

aminoacylase activity; hydrolase activity, acting on ester bonds; identical protein binding; metal ion binding

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