

## ACY3 Protein, Human (His)

Cat. No.:	HY-P7457
Synonyms:	rHuACY3, His; N-acyl-aromatic-L-amino acid amidohydrolase; ACY-3
Species:	Human
Source:	E. coli
Accession:	Q96HD9 (M1-S319)
Gene ID:	91703
Molecular Weight:	Approximately 35.0 kDa

### PROPERTIES

AA Sequence	<div> HHHHHHMCSL LHAPAE LQRA SSFLNSRPTP LHNTTANMGT FLYQRSGEES MRTL VATVLD EAGHL AGTVH ESTVYPVF IN PSPAS </div> <div> PVPREPLRRV SFS AVPVLAN DDPYEVTRAR CLIAKSSHEV YNLDSVAKNG FIELFNQGT A PQLQDRDFQP EAAYYEKGVA </div> <div> AVTGGTHGNE PAATSGCRRY ELNQLLGPKA FAMHL CRHLQ LGLELGPQPQ FPAFEMEAYR LQPGAPI FQM FVQTEKFTFT </div> <div> MSGVYLARHW VDHDLNRTFT SGQAFDFVLD LQYPELSCQV GVL RADIFSR PVG VVDFPRT FSGEDLLYEG VPAMPALTPA </div>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM Tris, 100 mM NaCl, 1 mM DTT, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	ACY3 (Aspartoacylase 3) is an aspartoacylase, and locates at 11q13.2. The length of its sequence is 959 bases, encoding 319aa. ACY3 plays an important role in deacetylating mercapturic acids in kidney proximal tubules. ACY3 mediates
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deacetylation of N-acetyl-L-amino acids to give fatty acids and amino acids as products. ACY3 also deacetylated N-acetyl-L-histidine and N-acetyl-L-methionine. ACY3 is capable of binding to HCV core protein<sup>[1][2]</sup>.

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## REFERENCES

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- [1]. Chen YR, et al. Identification of a novel protein binding to hepatitis C virus core protein. J Gastroenterol Hepatol. 2009 Jul;24(7):1300-4.
- [2]. Newman D, et al. Specificity of aminoacylase III-mediated deacetylation of mercapturic acids. Drug Metab Dispos. 2007 Jan;35(1):43-50.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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