

## ACY3 Human

**Description:**ACY3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 342 amino acids (1-319 a.a.) and having a molecular mass of 37.6kDa.ACY3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-160

For research use only.

**Synonyms:**Aspartoacylase-2, Acylase III, Aminoacylase-3, ACY-3, Hepatitis C virus core-binding protein 1, HCBP1, ACY3, ASPA2.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered clear solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSMCSLPVP REPLRRVAVT  
GGTHGNEMSG VYLARHWLHA PAELQRASFS AVPVLANPAA TSGCRRYVDHDLNRTFTSSF  
LNSRPTDDP YEVTRARELN QLLGPKASGQ AFDFVLDLHN TTANMGTC LI AKSSHEVFAM  
HLCRHLQLQY PELSCQVFLY QRSGEESYNL DSVAKNGLGL ELGPQPQGV L RADIFSRMRT  
LVATVLD FIE LFN

**Purity:**Greater than 90% as determined by SDS-PAGE.

**Formulation:**

ACY3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Aspartoacylase 3 (ACY3) belongs to the Aspartoacylase subfamily. ACY3 has a vital role in deacetylating mercapturic acids in kidney proximal tubules. Aspartoacylase 3 localizes to the cytoplasm of S2 and S3 proximal tubules and also to the apical domain of S1 proximal tubules. In addition, ACY3 protein is expressed at low levels in the stomach, testis, heart, brain, lung and liver, and can function as an HCV (Hepatitis C virus) core binding protein.

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