
Product Data Sheet

Product Name: ACY1 Mouse

Cat. No.: GP21350

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Aminoacylase-1; ACY-1; N-acyl-L-amino-acid amidohydrolase; Aminoacylase 1; Acy1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEFMTTKD PESEHPSVTL FRQYLRICTV QPNPDYGGAI TFLEERARQLGLSCQKIEVV PGFVITVLTW PGTNPSLPSI LLNSHTDVVP VFKEHWHHDP FEA FKDSEGY IYARGSQDMK SVSIQYLEAVRRLKSEGHRF PRTIHMTFVP DEEVGGHKGM ELFVKRPEFQ ALRAGFALDE GLANPTDAFT VFYSERSPWVVRVTSTGKPG HASRFIEDTA AEKLHKVISS ILAFREKERQ RLQANPHLKE GAVTSVNLTK LEGGVAYNVVPATMSASFD F RVAPDVDMKA FEKQLQRWCQ EAGEGVTFEF AQKFTEPRMT PTDDSDPWWA AFSGACKAMN LTLEPEIFPAATDSRYIRAV GIPALGFSPM NRTPVLLHDH NERLHEDIFL RGVDIYTGLL SALASVPTLP GES.		
Formulation	ACY1 protein solution (0.25mg/ml) containing Phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

Acy1 or Aminoacylase1 is a cytosolic, homodimeric, zinc-binding enzyme which catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and acyl group, and has been suggested to operate in the catabolism and salvage of acylated amino acids. ACY1 is localized in chromosome 3p21.1, a region reduced to homozygosity in small-cell lung cancer (SCLC), and its expression has been observed to be reduced or undetectable in SCLC cell lines and tumors.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ACY1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 433 amino acids (1-408 a.a) and having a molecular mass of 48.4kDa. ACY1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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