



Product Datasheet

Product Name	Aminoacylase-1 Human Recombinant
Cata No	CB500474
Source	<i>Escherichia Coli.</i>
Synonyms	N-acyl-L-amino-acid amidohydrolase, ACY-1, ACY1D, ACYLASE, ACY1.

Description

Aminoacylase-1 is a cytosolic, homodimeric, zinc-binding enzyme that catalyzes the hydrolysis of acylated L-amino acids to L-amino acids and acyl group, and has been postulated to function in the catabolism and salvage of acylated amino acids. ACY1 has been assigned to chromosome 3p21.1, a region reduced to homozygosity in small-cell lung cancer (SCLC), and its expression has been reported to be reduced or undetectable in SCLC cell lines and tumors. The amino acid sequence of human aminoacylase-1 is highly homologous to the porcine counterpart, and ACY1 is the first member of a new family of zinc-binding enzymes. Aminoacylase-1 Human Recombinant produced in E.Coli is a non-glycosylated, polypeptide chain containing amino acids 1-408 and having a total molecular mass of 46.9 kda. ACY-1 contains T7 tag at N-terminus. ACY1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 95.0% as determined by SDS-PAGE

Formulation

Aminoacylase-1 at a concentration of 0.1mg/ml in 10mM Tris, pH 8.0, 0.1% Triton X-100 and 0.002% NaN₃.

Stability

ACYLASE although stable at 4°C for 1 week, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Applications

- ELISA
- MS
- Inhibition Assays
- Western Blotting