

Product Data Sheet

□ Cat # RP-382

Recombinant Human AminoAcylase-1

Size: □ 10 ug

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.

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

Applications and Suggested Dilutions: • ELISA • MS • Inhibition Assays • Western Blotting Greater than 95.0% as determined by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: ACYLASE although stable at 14°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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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