
Product Data Sheet

Product Name: ARG1 Human, Active

Cat. No.: GP26125

Batch No.: 1

Product Data

Purity >98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Arginase-1 liver, Arginase-1, liver, Arginase-1, liver A I, AI, ARG 1, ARG1, Arginase 1, Arginase liver, Arginase type I, Arginase1, Liver type arginase, Type I arginase.

Amino Acid Sequence
MSAKSRTIGI IGAPFSKGQP RGGVEEGPTV LRKAGLLEKL KEQECDVKDY
GDLPFADIPN DSPFQIVKNP RSVGKASEQL AGKVAEVKKN GRISLVLGGD
HSLAIGSISG HARVHPDLGV IWVDAHTDIN TPLTTTSGNL HGQPVSFLK
ELKGGIPDVP GFSWVTPCIS AKDIVYIGLR DVDPGEHYIL KTLGIKYFSM
TEVDRLGIGK VMEETLSYLL GRKKRPIHLS FDVDGLDPSF TPATGTPVVG
GLTYREGLYI TEEIYKTGLL SGLDIMEVNP SLGKTPEEVT RTVNTAVAIT
LACFGLAREG NHKPIDYLNP PKLEHHHHHH.

Formulation ARG1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT and 100mM NaCl.

Introduction

Arginase-1 is part of the urea cycle, it catalyzes the hydrolysis of arginine to ornithine and urea. There are two isoforms of mammalian arginase which differ in their tissue location, subcellular localization, immunologic crossreactivity & physiologic role. Arginase-1 is a cytosolic enzyme and expressed primarily in the liver tissue. Inherited deficiency in this enzyme may lead to argininemia, which is an autosomal recessive disease in which hyperammonemia is detected.

Biological Activity

Specific activity is > 150,000 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 pmole of arginine to urea per minute at pH 10.5 at 37C.

Stability

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

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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.

Background

ARG1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 330 amino acids (1-322aa) and having a molecular mass of 35.8 kDa. ARG1 is fused to a 8 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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