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32-8835: Recombinant Human Arginase-1/ARG1(C-6His)

Gene : ARG1
Gene ID : 383
Uniprot ID : P05089

Description

Source: Human cells.
MW :35.6kD.
Recombinant Human Arginase-1 is produced by our Mammalian expression system and the target gene encoding Met1-Lys322 is expressed with a 6His tag at the C-terminus. ARG1 is a member of the ureohydrolase family of enzymes. ARG1 can catalyze the hydrolysis of arginine to ornithine and urea. In the urea cycle, ARG1 catalyzes the fifth and final step, a series of biochemical reactions in mammals during which the body disposes of harmful ammonia. ARG1 is a cytosolic enzyme and expressed widely in the liver as part of the urea cycle, while it is also expressed in cells and tissues that lack a complete urea cycle, including lung. Inherited deficiency of this ARG1 causes argininemia, which is an autosomal recessive disorder characterized by hyperammonemia.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 10mM Tris-HCl,1mM 2-mercaptoethanol,2mM MnCl2,150mM NaCl,pH7.5.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MSAKSRTIGIIGAPFSKGQPRGGVEEGPTVLRKAGLLEKLKEQECDVKDYGDLPFADIPNDSPFQIVKNPRSVGK ASEQLAGKVAEVKKNGRISLVLGGDHSLAIGSISGHARVHPDLGVIWVDAHTDINTPLTTTSGNLHGQPVSFLL KELKGKIPDVPGFSWVTPCISAKDIVYIGLRDVDPGEHYILKTLGIKYFSMTEVDRLGIGKVMEETLSYLLGRKKRP IHLSFDVDGLDPSFTPATGTPVVGGLTYREGLYITEEIYKTGLLSGLDIMEVNPSLGKTPEEVTRTVNTAVAITLAC FGLAREGNHKPIDYLNPPKHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/Ã□Âµg (1 IEU/Ã□Âµg) as determined by LAL test.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.