

32-8271: Recombinant Human Arginase-1/ARG1 (C-6His)

Gene : ARG1
Gene ID : 383
Uniprot ID : P05089

Description

Source: E. coli.
MW :35.8kD.

Recombinant Human Arginase-1 is produced by our E.coli 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. 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 20mM Tris, 150mM NaCl, 20% Glycerol, 1mM DTT, pH 7.4.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MSAKSRTIGIIGAPFSKGGQPRGGVEEGPTVLRKAGLLEKLKEQECVKDYGDLPFADIPNDSPFQIVKNPRSVGK
ASEQLAGKVAEVKKNGRISLVLGGDHSLAIGSISGHARVHPDLGVIWVDAHTDINTPLTTTSGNLHGQPVSFLL
KELKGKIPDVPGFSWVTPCISAKDIVYIGLRDVPGEHYILKTLGIKYFSMTEVDRLGIGKVMEETLSYLLGRKKRP
IHLSFDVDGLDPSFTPATGTPVVGGLTYREGLYITEEYKTGLLSGLDIMEVNPSLGKTPPEEVTRTVNTAVAILAC
FGLAREGNHKPIDYLNPPKLEHHHHHH

Application Note

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