

## 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 MnCl<sub>2</sub>, 150mM NaCl, pH7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MSAKSRTIGIIGAPFSKQPRGGVEEGPTVLRKAGLLEKLKEQECDVKDYGDLFPADIPNDSPFQIVKNPRSVGKASEQLAGKVAEVKKNGRISLVLGGDHSLAIGSISGHARVHPDLGVIWVDAHTDINTPLTTTSGNLHGQPVSFLLKELKGGKIPDVPGFSWVTPCISAKDIVYIGLRDVPGEHYILKTLGIKYFSMTEVDRLGIGKVMEEETLSYLLGRKKRP IHL SFDVDGLDPSFTPATGTPVVGGLTYREGLYITEEIYKTGLLSGLDIMEVNP SLGKTPEEVTRTVNTAVAILLAC FGLAREGNHKPIDYLNPPKHHHHHH

### Application Note

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