

## 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 :** MSAKSRTIGIIGAPFSKGGQPRGGVEEGPTVLRKAGLLEKLKEQECDVKDYGDLPFADIPNDSPFQIVKNPRSVGK  
ASEQLAGKVAEVKKNGRISLVLGGDHSLAIGSISGHARVHPDLGVIWVDAHTDINTPLTTTSGNLHGQPVSFLL  
KELKGGKIPDVPGFSWVTPCISAKDIVYIGLRDVPGEHYILKTLGIKYFSMTEVDRLGIGKVMEETLSYLLGRKKRP  
IHLSFDVDGLDPSFTPATGTPVVGGLTYREGLYITEEYKTGLLSGLDIMEVNPSLGKTPPEEVTRTVNTAVAILAC  
FGLAREGNHKPIDYLNPPKLEHHHHHH

### Application Note

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