



# Recombinant Rat Arginase-1 (Arg1)

<b>Product Code</b>	CSB-EP002005RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P07824
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MSSKPKPIEI IGAPFSKGQP RGGVEKGPAA LRKAGLVEKL KETEYNVRDH GD LAFVDVPN DSPFQIVKNP RSVGKANEQL AAVVAETQKN GTISVVLGGD HSMAIGSISG HARVHPDLCV IWVDAHTDIN TPLTTSSGNL HGQPVAFLLK ELKGKFPDVP GFSWVTPCIS AKDIVYIGLR DVDPGEHYII KTLGIKYFSM TEVDKLGIGK VMEETFSYLL GRKKRPIHLS FDVDGLDPVF TPATGTPVVG GLSYREGLYI TEEIYKTGLL SGLDIMEVNP TLGKTPEEVT RTVNTAVALT LSCFGTKREG NHPETDYLK PPK
<b>Source</b>	E.coli
<b>Target Names</b>	Arg1
<b>Protein Names</b>	Recommended name: Arginase-1 EC= 3.5.3.1 Alternative name(s): Liver-type arginase Type I arginase
<b>Expression Region</b>	1-323
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.