



Recombinant Mouse Arginase-2, mitochondrial (Arg2)

Product Code	CSB-EP002006MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O08691
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	VHSAIVG APFSRGQKKL GVEYGPAAIR EAGLLKRLSR LGCHLKDFGD LSFTNPQDD PYNNLVVYPR SVGLANQELA EVVSRAVSGG YSCVTMGGDH SLAIGTIIGH ARHRPDLCVI WVDAHADINT PLTTVSGNIH GQPLSFLIKE LQDKVPQLPG FSWIKPCLSP PNIVYIGLRD VEPPEHFILK NYDIQYFSMR EIDRLGIQKV MEQTFDRLIG KRQRPIHLSF DIDAFDPKLA PATGTPVVGG LTYREGVYIT EEIHNTGLLS ALDLVEVNPH LATSEEEAKA TARLAVDVIA SSFGQTREGG HIVYDHLPTP SSPHESENEE CVRI
Source	E.coli
Target Names	Arg2
Protein Names	Recommended name: Arginase-2, mitochondrial EC= 3.5.3.1 Alternative name(s): Kidney-type arginase Non-hepatic arginase Type II arginase
Expression Region	23-354
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exists (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type II isoform encoded by this gene, is located in the mitochondria and expressed in extra-hepatic tissues, especially kidney. The physiologic role of this isoform is poorly understood; it is thought to play a role in nitric oxide and polyamine metabolism. Transcript variants of the type II gene resulting from the use of alternative polyadenylation sites have been described.
Reconstitution	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.
Shelf Life	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.