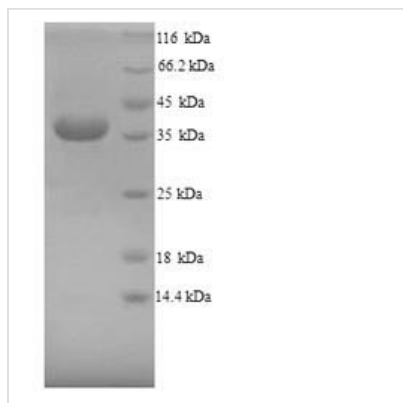


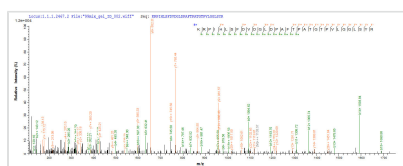


# Recombinant Mouse Arginase-1 (Arg1)

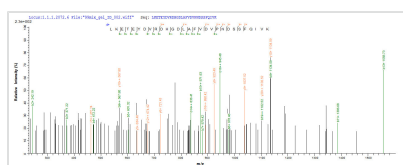
<b>Product Code</b>	CSB-YP733775MO
<b>Abbreviation</b>	Recombinant Mouse Arg1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q61176
<b>Alias</b>	Liver-type arginaseType I arginase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MSSKPKSLEIIGAPFSKGQPRGGVEKGPAALRKAGLLEKLKETEYDVRDHGDL AFVDVPNDSSFQIVKNPRSVGKANEELAGVVAEVQKNGRVSVVLGGDHSLAV GSISGHARVHPDLCVIWVDAHTDINTPLTTSSGNLHGQPVSFLLKELKGKFPDV PGFSWVTPCISAKDIVYIGLRDVPGEHYIIKTLGIKYFSMTEVDKLGIGKVMEE TFSYLLGRKKRPIHLSFDVDGLDPAFTPATGTPVLGGLSYREGLYITEEIIYKTGL LSGLDIMEVNPTLGKTAEVKSTVNTAVALTLACFGTQREGNHKPGTDYLKPP K
<b>Research Area</b>	Others
<b>Source</b>	Yeast
<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>	1-323aa
<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>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	36.8kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP733775MO could indicate that this peptide derived from Yeast-expressed Mus musculus (Mouse) Arg1.



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## Description

To prepare this Recombinant Mouse Arg1 protein, the recombinant DNA was required, which was generated by fusing the Arg1 gene with N-terminal 6xHis tag sequence. Once the recombinant DNA was amplified and purified, a protein expression system, Yeast, was needed for this Arg1 protein production. After purification, a premium Arg1 recombinant protein was obtained. According to SDS-PAGE, its purity turns out to be 90%+.

Arg1 is a gene encoding a protein named arginase-1 (also commonly known as liver-type arginase or type I arginase). The protein encoded by this gene is a liver-specific hydrolase that catalyzes the conversion of L-arginine to L-ornithine and urea in the final step of the urea cycle. Urea cycle refers to the breakdown and removal of nitrogen from the body. Arginase is one of six enzymes in this process. Accumulating studies has reported that Arg-1 has been shown by immunohistochemistry to be concentrated in periportal hepatocytes.

## 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.