

Arginase-2/ARG2 Protein, Mouse, Recombinant (His & SUMO)

General Information

Synonyms:	Kidney-type arginase;Non-hepatic arginase;Type II arginase;Arginase II;Arginase-2, mitochondrial;Arg2;mitochondrial
Protein Construction:	23-354 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	O08691
Molecular Weight:	52.4 kDa (predicted)
AA Sequence:	VH5VAIVGAPFSRGQKKGVEYGPAAIREAGLLKRLSRLGCHLKDFGDLSTNVPQDDPYNNLVVYPRSVGLA NQELAEVVSRAVSGGYSCVTMGGDHSLAIGTIIGHARHRPDLCVIWDVAHADINTPLTTVSGNIHGQPLSFLIK ELQDKVPQLPGFSWIKPCLSPPNIVYIGLRDVEPPEHFILKNYDIQYFSMREIDRLGIQKVMQTFDRLIGKRQR PIHLSFDIDAFDPKLAPATGTPVVGGLTYREGVYITEIHNTGLLSALDLVEVNPPLATSEEEAKATARLAVDVIA SSFGQTREGGHIVYDHLPTPSSPHESENEECVRI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

May play a role in the regulation of extra-urea cycle arginine metabolism and also in down-regulation of nitric oxide synthesis. Extrahepatic arginase functions to regulate L-arginine bioavailability to nitric oxid synthase (NOS).

A DRUG SCREENING EXPERT

Arginine metabolism is a critical regulator of innate and adaptive immune responses. Seems to be involved in negative regulation of the survival capacity of activated CD4(+) and CD8(+) T cells. May suppress inflammation-related signaling in asthmatic airway epithelium. May contribute to the immune evasion of H.pylori by restricting M1 macrophage activation and polyamine metabolism. May play a role in promoting prenatal immune suppression. Regulates RPS6KB1 signaling, which promotes endothelial cell senescence and inflammation and implicates NOS3/eNOS dysfunction. Can inhibit endothelial autophagy independently of its enzymatic activity implicating mTORC2 signaling. Involved in vascular smooth muscle cell senescence and apoptosis independently of its enzymatic activity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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