Recombinant Mouse Arg2 Protein, His-tagged

Cat. No. Arg2-244M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Arg2 Protein (Val23-Ile354) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Val23-Ile354
Description	Predicted to enable arginase activity; manganese ion binding activity; and nitric-oxide synthase binding activity. Involved in several processes, including negative regulation of CD4-positive, alpha-beta T cell proliferation; negative regulation of activated CD8-positive, alpha-beta T cell apoptotic process; and negative regulation of cytokine production. Acts upstream of or within striated muscle contraction and ureteric bud development. Located in mitochondrion. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; integumental system; and sensory organ. Human ortholog(s) of this gene implicated in asthma. Orthologous to human ARG2 (arginase 2).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 37.7 kDa Accurate Molecular Mass: 37 kDa
Purity	> 90%

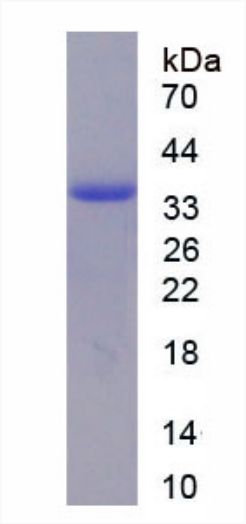
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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	100mM NaHCO3, 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Arg2 arginase type II [Mus musculus (house mouse)]
Official Symbol	Arg2
Synonyms	ARG2; arginase type II; arginase-2, mitochondrial; type II arginase; kidney-type arginase; non-hepatic arginase; AII; AU022422
Gene ID	11847
mRNA Refseq	NM_009705
Protein Refseq	NP_033835
UniProt ID	O08691

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