

Product information



ARG2, 23-354aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0591

Full name: Arginase-2, type II

NCBI Accession No.: NP_001163

Synonyms: Kidney arginase, Non-hepatic arginase

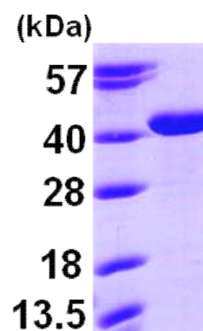
Description: Arginase is a manganese-containing enzyme which catalyzes the hydrolysis of arginine to ornithine and urea. It is the final enzyme of the urea cycle. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic cross-reactivity and physiologic function. The type II isoform is located in the mitochondria and expressed in extra-hepatic tissues, especially kidney. It is thought to play a role in nitric oxide and polyamine metabolism. Recombinant human ARG2, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

Form: Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol

Molecular Weight: 38.3kDa(353aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MVHSVAVIGA PFSQGQKRKG VEHGPAAIRE AGLMKRLSSL GCHLKDFGDL SFTVPVKDDL YNNLIVNPRS
VGLANQELAE VVSRAVSDGY SCVTLLGGDHS LAIGTISGHA RHCPDLCVVW VDAHADINTP LTTSSGNLHG QPVSFLLREL QDKVPQLPGF
SWIKPCISSA SIVYIGLRDV DPPEHFILKN YDIQYFSMRD IDRLGIQKVM ERTFDLLIGK RQRPIHLSFD IDAFDPTLAP ATFTPVVGGL
TYREGMYIAE EIHTNTGLLSA LDLVEVNPQL ATSEEEAKTT ANLAVDVIAS SFGQTREGGH IVYDQLPTPS SPDESENQAR VRI

General references:

Frumento G., *et al.* (2008) *Int J Cancer*. 123(5):1108-16J

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Meurs H., *et al.* (2010) *Pharmacogenet Genomics*. 20(3):179-86.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

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