

Recombinant human Arginase 2/ARG2 protein

Catalog Number: ATGP0591

PRODUCT INFORMATION

Expression system

E.coli

Domain

23-354aa

UniProt No.

P78540

NCBI Accession No.

NP_001163

Alternative Names

Arginase-2 type II, Kidney arginase, Non-hepatic arginase, Arginase-2, type II Arginase II mitochondrial, Kidney type arginase, Non hepatic arginase.

PRODUCT SPECIFICATION

Molecular Weight

38.3 kDa (353aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

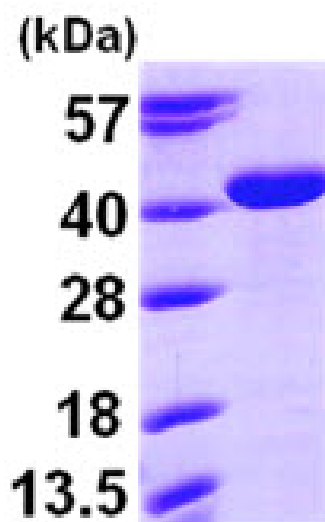
MGSSHHHHHH SSGLVPRGSH MVHSVAVIGA PFSQGQKRKG VEHGPAAIRE AGLMKRLSSL GCHLKDFGDL SFTPVPKDDL
YNNLIVNPRS VGLANQELAE VVSRAVSDGY SCVTLGGDHS LAIGTISGHA RHCPDLCVWV VDAHADINTP LTTSSGNLHG
QPVSFLLREL QDKVPQLPGF SWIKPCISSA SIVYIGLRDV DPPEHFILKN YDIQYFSMRD IDRLGIQKVM ERTFDLLIGK
RQRPIHLSFD IDAFDPTLAP ATFTPVVGGL TYREGMYIAE EIHNTGLLSA LDLVEVNPQL ATSEEEAKTT ANLAVDVIAS
SFGQTREGGH IVYDQLPTPS SPDESENQAR VRI

General References

Frumento G., et al. (2008) Int J Cancer. 123(5):1108-16J
Meurs H., et al. (2010) Pharmacogenet Genomics. 20(3):179-86.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)