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ARG2 Human

Catalog #:ENPS-533

For research use only.

Description:ARG2 Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide chain containing 353 amino acids (23-354 a.a.) and having a molecular mass of 38.3 kDa. The ARG2 is fused to a 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Synonyms: Kidney Arginase, Non-Hepatic Arginase, EC 3.5.3.1, Arginase-2, Type II arginase, Kidney-type arginase, Arginase-2 mitochondrial.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MVHSVAVIGA PFSQGQKRKG VEHGPAAIRE AGLMKRLSSL GCHLKDFGDL SFTPVPKDDL YNNLIVNPRS VGLANQELAE VVSRAVSDGY SCVTLGGDHS LAIGTISGHA RHCPDLCVVW VDAHADINTP LTTSSGNLHG QPVSFLLREL QDKVPQLPGF SWIKPCISSA SIVYIGLRDV DPPEHFILKN YDIQYFSMRD IDRLGIQKVM ER

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
ARG2 Human solution containing 20mM Tris-HCl pH-8, & 10% glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
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Introduction:
ARG2 participates 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 NO synthase. Since NO synthase is found in the penile corpus cavernosum smooth muscle, the clitoral corpus cavernosum and the vagina, ARG2 takes part in both male and female sexual arousal and therefore a potential target for the treatment of male and female sexual arousal disorders.

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