
Product Data Sheet

Product Name: ARG2 Human
 Cat. No.: GP21409
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Kidney Arginase; Non-Hepatic Arginase; EC 3.5.3.1; Arginase-2; Type II arginase; Kidney-type arginase; Arginase-2 mitochondrial.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MVHSAVIGA 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.		
Formulation	ARG2 Human solution containing 20mM Tris-HCl pH-8, & 10% glycerol.		

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.

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.

Background

ARG2 Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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