

Arginase-1/ARG1 Protein, Human (C-His)

Cat. No.:	HY-P7541
Synonyms:	rHuArginase-1, His; ARG1; Arginase-1
Species:	Human
Source:	E. coli
Accession:	P05089 (M1-K322)
Gene ID:	383
Molecular Weight:	Approximately 40.0 kDa

PROPERTIES

AA Sequence	<pre> MSAKSRTIGI IGAPFSKGQP RGGVEEGPTV LRKAGLLEKL KEQECDVKDY GDLPFADIPN DSPFQIVKNP RSVGKASEQL AGKVAEVKKN GRISLVLGGD HSLAIGSISG HARVHPDLGV IWVDAHTDIN TPLTTTSGNL HGQPVSFLLK ELKGKIPDVP GFSWVTPCIS AKDIVYIGLR DVDPGEHYIL KTLGIKYFSM TEVDRLGIGK VMEETLSYLL GRKKRPIHLS FDVDGLDPSF TPATGTPVVG GLTYREGLYI TEEIYKTGLL SGLDIMEVNP SLGKTPEEVT RTVNTAVAIT LACFGLAREG NHKPIDYLN PKHHHHHH </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 150 mM NaCl, 1 mM DTT, 20% Glycerol, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Recombinant Human Arginase-1 has IC ₅₀ s of 0.18 U/ml and 0.07 U/ml for HepG2 and Hep3B cells. Recombinant Human Arginase-1 has a K _m value of 1.9 mM for arginine ^[1] .
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REFERENCES

[1]. Sam-Mui Tsui, et al. Pegylated Derivatives of Recombinant Human Arginase (rhArg1) for Sustained in Vivo Activity in Cancer Therapy: Preparation, Characterization and Analysis of Their Pharmacodynamics in Vivo and in Vitro and Action Upon Hepatocellular Carcinoma Cell (HCC). *Cancer Cell Int.* 2009 Apr 17;9:9.

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

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