



Recombinant Protein Technical Manual

Recombinant Human Arginase-2/ARG2 Protein (His Tag)

RPES2967

Product Data:

Product SKU: RPES2967

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P78540

Protein Information:

Molecular Mass: 34.2 kDa

AP Molecular Mass: 33 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 10mM TrisHCl, 10mM NaCl, 1mM β-mercaptoethanol, pH7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Arginase-2, mitochondrial; Kidney-type arginase; Non-hepatic arginase; Type II arginase; ARG2

Immunogen Information:

Sequence: His24-Gly330

Background:

Arginase-2 (ARG2) is a member of the arginase family. Arginase is a manganese-containing enzyme which catalyzes the hydrolysis of arginine to ornithine and urea. ARG2 is highly expressed in kidney and prostate, not founded in the liver, heart and pancreas. ARG2 has been implicated in the regulation of the arginine/ornithine concentrations in the cell. ARG2 may take part in the regulation of extra-urea cycle arginine metabolism and in down-regulation of nitric oxide synthesis. The extrahepatic arginase functions to regulate L-arginine bioavailability to NO synthase.