

## Recombinant human Arginase 1/ARG1 protein, Enzyme Activity

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Catalog	Unit
TBP0100-10UG	10 ug
TBP0100-50UG	50 ug

### Product Details

Alternative names: Arginase-1 liver, Arginase-1, liver, Arginase-1, liver A I, AI, ARG 1, ARG1, Arginase 1, Arginase liver, Arginase type I, Arginase1, Liver type arginase, Type I arginase.

Molecular Weight: 35.8 kDa

Concentration: 0.5mg/ml

Formulation: Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl

Purity: > 85% by SDS-PAGE

Biological Activity: Specific activity is > 150,000pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0pmole of arginine to urea per minute at pH 10.5 at 37C.

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.

### 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 crossreactivity and physiologic function. The type I isoform functions in the urea cycle, and is located primarily in the cytoplasm of the liver. The type II isoform has been implicated in the regulation of the arginine/ornithine concentrations in the cell. It is located in mitochondria of several tissues in the body, with most abundance in the kidney and prostate. Recombinant human ARG1, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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