

RPCB0346

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## Product Information

<b>Product SKU:</b> RPCB0346	<b>Gene ID:</b> 383	<b>Size:</b> 10µg
<b>Tag:</b> C-His	<b>Reactivity:</b> Human	

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## Additional Information

<b>Expression Host:</b> HEK293 cells	<b>Swissprot:</b> P05089-1
<b>Purity:</b> > 92% by SDS-PAGE.	

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## Protein Information

**Background:** Arg1 also known as liver arginase, is a binuclear manganese metalloenzyme. It is a key enzyme of the urea cycle that catalyses the conversion of L-arginine into L-ornithine and urea, the final cytosolic reaction of urea formation in the mammalian liver. Arginase 1 is abundantly expressed in liver, but it is also expressed in cells and tissues that lack a complete urea cycle, including lung. Arginase is a critical regulator of nitric oxide synthesis and vascular function. It is implicated in a variety of human diseases including vascular disease, pulmonary disease, infectious disease, immune cell function and cancer. In humans, hereditary defects in arginase result in an accumulation of arginine in the blood known as hyperarginemia. Arginase deficiency can also result in the accumulation of nitrogen in the form of ammonia, which results in hyperammonemia.

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human Arginase 1/ARG1 Protein, tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

**Endotoxin:** < 0.01 EU/µg of the protein by LAL method.

**Formulation:** Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

**Storage:**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.