

## Arginase from Human, Recombinant

Cat. No. NATE-1572

Lot. No. (See product label)

### Introduction

**Description** Arginase (EC 3.5.3.1, arginine amidinase, canavanase, L-arginase, arginine transamidinase) is a manganese-containing enzyme. The reaction catalyzed by this enzyme is: arginine + H<sub>2</sub>O → ornithine + urea. It is the final enzyme of the urea cycle. It is ubiquitous to all domains of life.

**Synonyms** Arginase; arginine amidinase; canavanase; L-arginase; arginine transamidinase; EC 3.5.3.1

### Product Information

**Species** Human liver

**Source** E. coli

**Form** 3.2 M ammonium sulphate

**EC Number** EC 3.5.3.1

**CAS No.** 9000-96-8

**Molecular Weight** 35 kDa

**Purity** >95% as judged by SDS-PAGE

**Activity** 390 U/mg protein, 1950 U/ml.

**Optimum pH** 10.0-11.0

**Optimum temperature** 25-40 °C

**Unit Definition** One Unit of arginase was defined as the amount of enzyme required to produce one micromole of urea for 1 min at 30 °C and pH 8.3.

### Storage and Shipping Information

**Storage** Arginase should be stored at 4 °C or and will remain stable up to 3 years if stored as specified.