



## Recombinant Creatinase (DAG-WT125)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

Conjugate	His
Applications	Immunoassay
Molecular Weight	44kDa
Bio-activity	46.8U/mg
Format	Lyophilized Powder
Size	1 mg
Storage	Store at -20°C. Avoid freeze/thaw cycles

### BACKGROUND

#### Introduction

Creatinase (EC 3.5.3.3) is an enzyme that catalyzes the chemical reaction: creatine + H<sub>2</sub>O ↔ sarcosine + urea. Thus, the two substrates of this enzyme are creatine and H<sub>2</sub>O, whereas its two products are sarcosine and urea. This enzyme belongs to the family of hydrolases, those acting on carbon-nitrogen bonds other than peptide bonds, specifically in linear amidines. Creatinase accelerates the conversion reaction of creatine and water molecule to sarcosine and urea. It always acts in homodimer state and is induced by choline chloride.