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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Creatinase (Recombinant)

Cat. No.:	HY-P2893A
CAS No.:	37340-58-2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Creatinase (Recombinant)

BIOLOGICAL ACTIVITY

Description

Creatinase (Recombinant) is a hydrolase responsible for catalyzing the hydrolysis of creatine (HY-W010388) into sarcosine (HY-101037) and urea (HY-Y0271). Creatinase (Recombinant) can be used in conjunction with creatinine deiminase (HY-P2838) and sarcosine oxidase (HY-P2861) in an enzyme cascade reaction to measure creatinine (HY-B0504) levels in blood and urine. Creatinase (Recombinant) is the rate-limiting enzyme in this enzymatic cascade, and the enzymatic quantification of creatinine is an important method for evaluating kidney function^{[1][2]}.

REFERENCES

[1]. Schumann J, et al. Stabilization of creatinase from *Pseudomonas putida* by random mutagenesis. *Protein Sci.* 1993 Oct;2(10):1612-20.

[2]. Bai X, et al. Improved thermostability of creatinase from *Alcaligenes Faecalis* through non-biased phylogenetic consensus-guided mutagenesis. *Microb Cell Fact.* 2020 Oct 17;19(1):194.

Caution: Product has not been fully validated for medical applications. For research use only.

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