

Penicillin G amidase

Cat. No. CEZ054 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Bacillus megaterium
Source	Bacillus Megaterium
Description	Penicillin G amidase is an enzyme that catalyzes the chemical reaction: penicillin + H ₂ O → a carboxylate + 6-aminopenicillanate. Thus, the two substrates of this enzyme are penicillin and H ₂ O, whereas its two products are carboxylate and 6-aminopenicillanate. This enzyme belongs to the family of hydrolases, those acting on carbon-nitrogen bonds other than peptide bonds, specifically in linear amides. This enzyme participates in penicillin and cephalosporin biosynthesis.
Enzyme Commission Number	EC 3.5.1.11
Synonym	Penicillin amidohydrolase; penicillin acylase; benzylpenicillin acylase; novozym 217; semacylase; alpha-acylamwino-beta-lactam acylhydrolase; ampicillin acylase.
Physical form	Spherically Formed White Pellets.
Carrier	Polymethacrylate Polymer.
Carrier Immobilisation	Covalent Cross Linking.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Particle Size	100-300µm.
Dry Weight	around 44%.
pH Stability	6.0~8.5.
Optimum pH	8.0.
Optimum temperature	55°C
Specific activity	≥ 240U/g.
Substrate Concentration	8.0%.
Stability	Minimum 18 months subject to specified conditions.
Storage	Below 4°C and isolated from air.

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA