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 + H2O a carboxylate + 6-aminopenicillanate Thus, the two substrates of this enzyme are penicillin and H2O, 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 petide 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.

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