

## Penicillin amidase, E. coli

Cat. No.:	HY-P2834
CAS No.:	9014-06-6
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Penicillin amidase, E. coli

### BIOLOGICAL ACTIVITY

#### Description

Penicillin amidase (EC 3.5.1.11) (Penicillin acylase) is an enzyme that cleaves the acyl side chains of penicillins. Penicillin amidase can be used for the production of 6-aminopenicillanic acid. Penicillin amidase can also be used in the resolution of racemic mixtures, peptide synthesis, and synthesis of semi-synthetic  $\beta$ -lactam antibiotics<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Duggleby HJ, et al. Penicillin acylase has a single-amino-acid catalytic centre. *Nature*. 1995 Jan 19;373(6511):264-8.
- [2]. Avinash VS, et al. Penicillin acylases revisited: importance beyond their industrial utility. *Crit Rev Biotechnol*. 2016;36(2):303-16.
- [3]. Tishkov VI, et al. Protein engineering of penicillin acylase. *Acta Naturae*. 2010 Jul;2(3):47-61.

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

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