

Penicillinase (from calf stomach)

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| Cat. No.: | HY-E70077 |
| CAS No.: | 9001-74-5 |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

Penicillinase

BIOLOGICAL ACTIVITY

Description

Penicillinase (from calf stomach) is an enzyme that degrades penicillin by hydrolyzing the cyclic amide bonds in the lactam ring of penicillin, which can inactivate penicillin. Penicillinase (from calf stomach) can be isolated from penicillin resistant strains. Penicillinase (from calf stomach) has potential application as a marker for steroid hormone enzyme linked immunosorbent assay^{[1][2][3]}.

REFERENCES

- [1]. Soufer D. Protecting penicillin from penicillinase. *Microbios*. 1986;45(184-185):193-8.
- [2]. Joshi UM, et al. Penicillinase as a marker in enzyme-linked immunosorbent assays for steroid hormones. *J Steroid Biochem*. 1983 Jul;19(1B):419-21.
- [3]. Hackman AS, et al. Influence of penicillinase production by strains of *Bacteroides melaninogenicus* and *Bacteroides oralis* on penicillin therapy of an experimental mixed anaerobic infection in mice. *Arch Oral Biol*. 1976;21(6):385-9.

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

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