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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

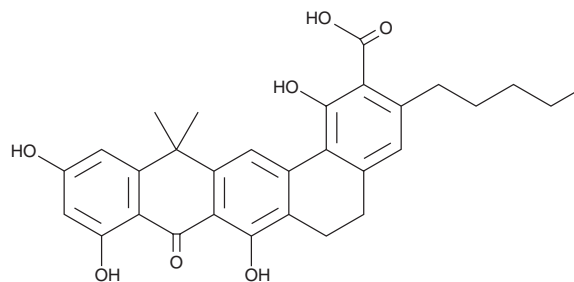


Benastatin B

Item No. 32893

CAS Registry No.: 138968-86-2
Formal Name: 5,6,8,13-tetrahydro-1,7,9,11-tetrahydroxy-13,13-dimethyl-8-oxo-3-pentyl-benzo[a]naphthacene-2-carboxylic acid

MF: C₃₀H₃₀O₇
FW: 502.6
Purity: ≥90%
Supplied as: A powder
Storage: -20°C
Stability: ≥2 years
Item Origin: Bacterium/*Streptomyces* sp.



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Benastatin B is supplied as a powder. A stock solution may be made by dissolving the benastatin B in the solvent of choice, which should be purged with an inert gas. Benastatin B is soluble in DMSO.

Description

Benastatin B is a polyketide synthase-derived benastatin that has been found in *Streptomyces* and has diverse biological activities.¹⁻³ It inhibits glutathione S-transferase (GST; K_i = 3.7 μM for the rat liver enzyme).² Benastatin B also inhibits the transglycosylase activity of *A. baumannii*, *C. difficile*, *E. coli*, and *S. aureus* recombinant penicillin-binding proteins (PBPs; IC₅₀s = 16, 53.3, 30.7, and 31.6 μM, respectively).³ It is active against several bacteria, including methicillin-resistant *S. aureus* (MRSA; MIC = 3.12 μg/ml).²

References

- Xu, Z., Schenk, A., and Hertweck, C. Molecular analysis of the benastatin biosynthetic pathway and genetic engineering of altered fatty acid-polyketide hybrids. *J. Am. Chem. Soc.* **129(18)**, 6022-6030 (2007).
- Aoyagi, T., Aoyama, T., Kojima, F., et al. Benastatins A and B, new inhibitors of glutathione S-transferase, produced by *Streptomyces* sp. MI384-DF12. I. Taxonomy, production, isolation, physico-chemical properties and biological activities. *J. Antibiot. (Tokyo)* **45(9)**, 1385-1390 (1992).
- Wu, W.-S., Cheng, W.-C., Cheng, T.-J.R., et al. Affinity-based screen for inhibitors of bacterial transglycosylase. *Am. Chem. Soc.* **140(8)**, 2752-2755 (2018).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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