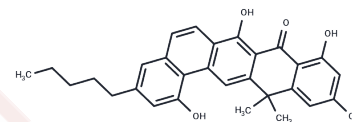


## Benastatin C

## Chemical Properties

CAS No. :	150151-88-5
Formula:	C <sub>29</sub> H <sub>28</sub> O <sub>5</sub>
Molecular Weight:	456.53
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Benastatin C is a polyketide synthase-derived benastatin found in [Streptomyces] with diverse biological activities. It inhibits glutathione S-transferase (GST; IC <sub>50</sub> = 24 µg/ml for the rat liver enzyme) and the esterase activity of isolated porcine pancreatic lipase (IC <sub>50</sub> = 10 µg/ml). Benastatin C also increases LPS- or concanavalin A-induced blastogenesis of isolated mouse spleen lymphocytes in a concentration-dependent manner.
Targets(IC <sub>50</sub> )	Others, Antibacterial

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1904 mL	10.9522 mL	21.9044 mL
5 mM	0.4381 mL	2.1904 mL	4.3809 mL
10 mM	0.219 mL	1.0952 mL	2.1904 mL
50 mM	0.0438 mL	0.219 mL	0.4381 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- 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)
- Aoyama, T., Kojima, F., Yamazaki, T., et al. Benastatins C and D, new inhibitors of glutathione S-transferase, produced by *Streptomyces* sp. MI384-DF12. Production, isolation, structure determination and biological activities. *J. Antibiot. (Tokyo)* 46(5)712-718(1993)

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