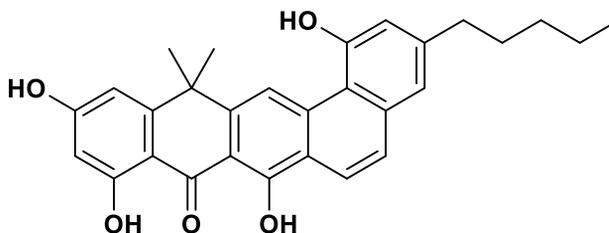


## PRODUCT DATA SHEET

### Benastatin C



Synonyms:

### Specifications

Code No.	: 00380
CAS#	: 150151-88-5
Molecular Formula	: C <sub>29</sub> H <sub>28</sub> O <sub>5</sub>
Molecular Weight	: 456.538
Source	: <i>Streptomyces</i> sp. MI384-DF12
Appearance	: Brownish-yellow powder
Purity	: > 95% (HPLC)
Long Term Storage	: at - 20 °C
Solubility	: Soluble in DMSO, MeOH, Acetone, EtOAc. Insoluble in H <sub>2</sub> O.

### Application Notes

Benastatin C is isolated from the culture broth of *Streptomyces* sp. MI384-DF12 as an inhibitor of glutathione S-transferase (GST).<sup>1)</sup> It shows considerable activities (IC<sub>50</sub>: 0.16 µg/mL) against human pi class GST (GSTπ).<sup>1)</sup> Benactatin C has inhibitory activity against esterase obtained from hog pancreas lipase (IC<sub>50</sub>: 10.0 µg/mL) and has excellent stimulatory activities on the murine lymphocyte blastogenesis.<sup>1)</sup>

### References

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