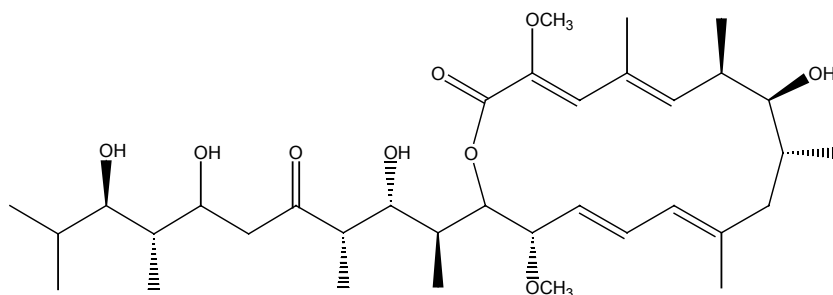


## Bafilomycin D

Code: BIA-B1162

Pack sizes: 1 mg, 5 mg



Synonyms : Tubaymycin, Antibiotic 3D5

### Specifications

CAS # : 98813-13-9  
Molecular Formula : C<sub>35</sub>H<sub>56</sub>O<sub>8</sub>  
Molecular Weight : 604.8  
Source : *Streptomyces* sp. MST-AS5343  
Appearance : White solid  
Purity : > 99% by HPLC  
Long Term Storage : +4°C  
Solubility : Soluble in ethanol, methanol, DMF or DMSO.

### Application Notes

Bafilomycin D shares the same mode of action as bafilomycin A1 which has been the analogue of choice in cell biology studies of the role of ATPase. Bafilomycin D contains the ring opened side chain and is a much more stable analogue of bafilomycin A1. In-house data demonstrate that bafilomycin D is also a much more selective inhibitor of mammalian cells than bafilomycin A which exhibits a broad profile against tumor cells, fungi and nematodes. Limited availability has restricted a more in depth investigation of this metabolite.

### References

1. The structure of novel insecticidal macrolides: bafilomycin D and E, and oxhygrolidin. Kretschmer A. et al., Agric. Biol. Chem. **1985**, 49, 2509
2. Bafilolides, potent Inhibitors of the motility and development of the free-living stages of parasitic nematodes. Lacey E. et al., Int. J. Parasitol. **1995**, 25, 349.