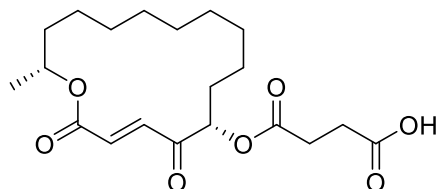


A 26771B

Code No.: **BIA-A1902**

Pack sizes: **1 mg, 5 mg**



Synonyms : Antibiotic A 26771b, BPL 81

## Specifications

CAS #	: <b>56448-20-5</b>
Molecular Formula	: <b>C<sub>20</sub>H<sub>30</sub>O<sub>7</sub></b>
Molecular Weight	: <b>382.45</b>
Source	: <b><i>Penicillium</i> sp.</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## Application Notes

A 26771B is a 16-membered macrocyclic lactone isolated from *Penicillium turbatum* patented and then published by Eli Lilly and Co. in 1975. A 26771B is closely related to the berkeleylactones, recently reported as antibiotics derived from a co-fermentation of *P. fuscum* and *P. camemberti/clavigerum*. A 26771B shows potent activity in vitro against Gram-positive bacteria and moderate activity against a broad selection of fungi. A 26771B inhibits potassium dependent ATPase in rat liver mitochondria.

## References

1. The isolation and structure elucidation of macrocyclic lactone antibiotic, A26771B. Michel K.H. et al., J. Antibiot. 1977, 30, 571.
2. The berkeleylactones, antibiotic macrolides from fungal coculture. Stierle A.A. et al., J. Nat. Products 2017, 80, 1150.
3. Stereospecific total synthesis and absolute configuration of a macrocyclic lactone antibiotic, A26771B. Tatsuta K. et al., Tetrahedron Letters 1980, 21, 1479.
4. Synthesis and biological properties of macrolactam analogs of the natural product macrolide (-)-A 26771B. Canova S. et al., Bioorg. Med. Chem. Lett. 2011, 21, 4768.