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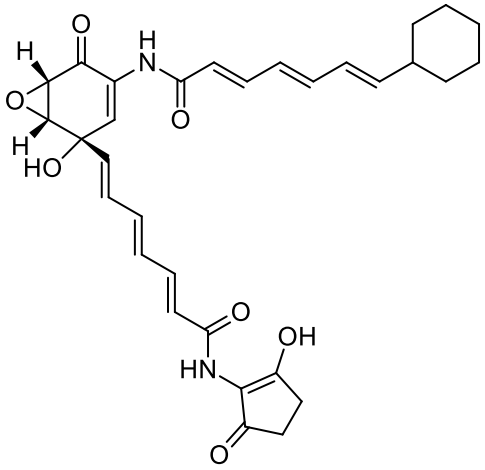
PRODUCT DATA SHEET

Asukamycin

Code No.: **BIA-A1600**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : Asukamycin A, AM 1024

Specifications

CAS #	:	**61116-33-4**
Molecular Formula	:	**$C_{31}H_{34}N_2O_7$**
Molecular Weight	:	**546.6**
Source	:	***Streptomyces* sp.**
Appearance	:	**Yellow-tan solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO.**

Application Notes

Asukamycin is an unusual trienoic acid amide metabolite produced by Streptomyces nodosus, reported by Omura and colleagues at the Kitasato Institute, Japan, in 1976. Asukamycin belongs to the manumycin class that comprises two trienoic acid amides pivoted on a central cyclohexenone ring to give the molecule an unprecedented angular geometry. Asukamycin is active against Gram positive bacteria, tumor cell lines and protozoans, notably coccidia. Asukamycin's cell toxicity is accompanied by activation of Caspases 3 and 8.

References

1. A new antibiotic, asukamycin, produced by Streptomyces. Omura S. et al., J. Antibiot. 1976, 29, 876.
2. The manumycin-group metabolites. Sattler I. et al., J. Antibiot. 2000, 53, 221.
3. Antitumor activity of asukamycin, a secondary metabolite from the actinomycete bacterium Streptomyces nodosus subspecies asukaensis. Shipley P.R. et al., Int. J. Mol. Med. 2009, 24, 711.

For in vitro laboratory use only. Not for human or animal use.

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