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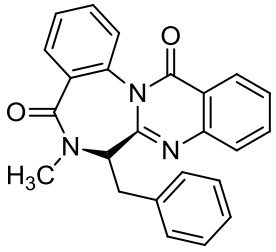
PRODUCT DATA SHEET

Benzomalvin A

Code No.: **BIA-B1647**

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



Synonyms :

Specifications

CAS #	:	**157047-96-6**
Molecular Formula	:	**$C_{24}H_{19}N_3O_2$**
Molecular Weight	:	**381.4**
Source	:	***Penicillium* sp.**
Appearance	:	**White to off-white solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Benzomalvin A was isolated as an active inhibitor of substance P binding to mammalian neurokinin NK1 receptors by researchers at Sterling Winthrop Pharmaceuticals (now Sanofi Aventis). The core benzodiazepine structure of benzomalvin A is formed biosynthetically by the condensation of two molecules of anthranilic acid and a phenylalanine. Benzomalvin A is related to the asperlicins, potent and selective antagonists of peripheral cholecystokinin receptors. Lack of availability has hampered further exploration of the pharmacology of benzomalvin A.

References

1. Benzomalvins, new substance P inhibitors from a Penicillium sp. Sun H.H. et al., J. Antibiot. 1994, 47, 515.
2. The first total synthesis of (-)-benzomalvin A and benzomalvin B via the intramolecular aza-Wittig reactions. Sugimori T. et al., Tetrahedron 1998, 54, 7997.
3. Asperlicin, a novel non-peptidal cholecystokinin antagonist from Aspergillus alliaceus. Fermentation, isolation and biological properties. Goetz M.A. et al., J. Antibiot. 1985, 38, 1633.

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