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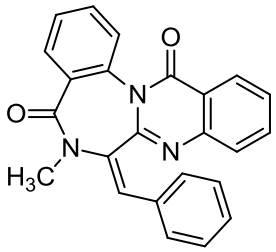
PRODUCT DATA SHEET

Benzomalvin B

Code No.: **BIA-B1646**

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



Synonyms :

Specifications

CAS #	:	**157047-97-7**
Molecular Formula	:	**$C_{24}H_{17}N_3O_2$**
Molecular Weight	:	**379.4**
Source	:	***Penicillium* sp.**
Appearance	:	**Pale yellow solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Benzomalvin B was first isolated as a weakly active inhibitor of substance P from mammalian neurokinin NK1 receptors by researchers at Sterling Winthrop Pharmaceuticals (now Sanofi Aventis) in 1994. The core benzodiazepine structure of benzomalvin B is formed biosynthetically by the condensation of two molecules of anthranilic acid and phenylalanine. Benzomalvin B 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 B.

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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