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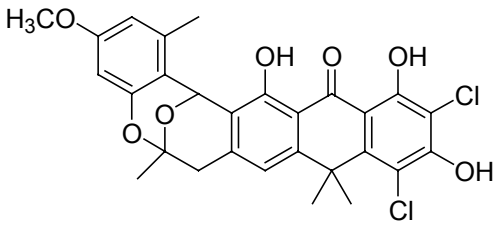
PRODUCT DATA SHEET

Bischloroanthrabenzoxocinone

Code: **BIA-B1163**

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



Synonyms : **(-)BABX**

Specifications

CAS #	:	**866022-28-8**
Molecular Formula	:	**$C_{28}H_{24}O_7Cl_2$**
Molecular Weight	:	**542.1**
Source	:	***Streptomyces* sp. MST-AS5558**
Appearance	:	**Light orange residue**
Purity	:	**> 99% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Bischloroanthrabenzoxocinone ((-)BABX) is a selective inhibitor of Type II fatty acid synthesis (FASII). BABX showed IC50 values of 11.4 and 35.3 ug/ml in the *S. aureus* and *E. coli* FASII assays, respectively, with comparable antibacterial activities. Type II fatty acid synthesis (FASII) is essential to bacterial cell viability and is a promising target for the development of novel antibiotics. More recently, BABX has been shown to inhibit agonist binding Liver X receptors (LXR). The receptors regulate the expression of the ABCA1 gene, which mediates the efflux of cholesterol from cells.

References

1. Determination of selectivity and efficacy of fatty acid synthesis inhibitors. Kodali S. et al., J. Biol. Chem. **2005**, 280, 1669.
2. Anthrabenzoxocinones from *Streptomyces* sp. as Liver X receptor ligands and antibacterial agents. Herath K. B. et al., J. Nat. Prod. **2005**, 68, 1437.

Building C, 28-54 Percival Road, Smithfield NSW 2164, AUSTRALIA
Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com