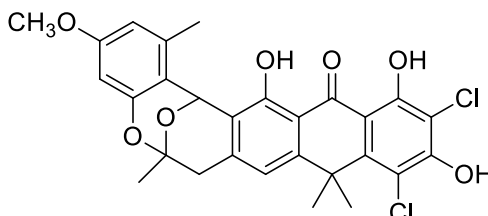


Bischloroanthrabenzoxocinone

Code No.: **BIA-B1163**

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



Synonyms : BABX

Specifications

| | |
|-------------------|--|
| CAS # | : 866022-28-8 |
| Molecular Formula | : C ₂₈ H ₂₄ O ₇ Cl ₂ |
| Molecular Weight | : 543.4 |
| Source | : <i>Streptomyces</i> sp. |
| Appearance | : Light orange residue |
| Purity | : >95% 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 µg/ml in the *S. aureus* and *E. coli* FASII assays, respectively, with comparable antibacterial activities. 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 to Liver X receptors (LXR). These 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.