

<b>Product Name:</b>	Bischloroanthrabenzoxocinone
<b>Product Number:</b>	B050
<b>CAS Number:</b>	866022-28-8
<b>Molecular Formula:</b>	$C_{28}H_{24}O_7Cl_2$
<b>Molecular Weight:</b>	542.1
<b>Appearance:</b>	Light orange residue
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Bischloroanthrabenzoxocinone ((-)-BABX) is a selective inhibitor of Type II fatty acid synthesis (FASII). BABX showed IC<sub>50</sub> values of 11.4 and 35.3 µg/ml in the <i>S. aureus</i> and <i>E. coli</i> 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.</p> <p>Bischloroanthrabenzoxocinone is soluble in ethanol, methanol, DMF and DMSO.</p>
<b>Mechanism of Action:</b>	<p>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.</p>
<b>References:</b>	<p>Determination of selectivity and efficacy of fatty acid synthesis inhibitors. Kodali S. et al. , J. Biol. Chem. 2005, 280, 1669.</p> <p>Anthrabenzoxocinones from <i>Streptomyces</i> sp. as Liver X receptor ligands and antibacterial agents. Herath K. B. et al. , J. Nat. Prod. 2005, 68, 1437.</p>