

<b>Product Name:</b>	UK-1
<b>Product Number:</b>	U007
<b>CAS Number:</b>	151271-53-3
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>14</sub> N <sub>2</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	386.4
<b>Appearance:</b>	White to pale pink solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	UK-1 is an unusual bis-benzoxazole metabolite isolated from a species of Streptomyces. UK-1 exhibits good antitumor activity but is devoid of antimicrobial activity.
<b>Mechanism of Action:</b>	UK-1 acts as a magnesium ion-dependent DNA binding agent and inhibitor of human topoisomerase II.
<b>References:</b>	<p>UK-1, a novel cytotoxic metabolite from Streptomyces sp. 517-02. I. Taxonomy, fermentation, isolation, physicochemical and biological properties. Ueki M. et al. J. Antibiot. 1993, 46, 1089.</p> <p>UK-1, a novel cytotoxic metabolite from Streptomyces sp. 517-02. II Structure elucidation. Shibata K. J. Antibiot. 1993, 46, 1095.</p> <p>The novel bis(benzoxazole) cytotoxic natural product UK-1 is a magnesium ion-dependent DNA binding agent and inhibitor of human topoisomerase II. Reynolds M. B. et al. Bioorg. Chem. 1999, 27, 326.</p>