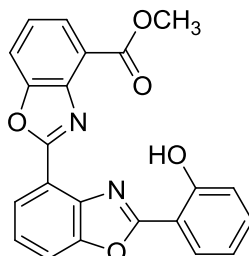


UK-1

Code No.: **BIA-U1290**

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



Synonyms :

Specifications

CAS #	: 151271-53-3
Molecular Formula	: C₂₂H₁₄N₂O₅
Molecular Weight	: 386.4
Source	: <i>Streptomyces</i> sp.
Appearance	: White to pale pink solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in DMF or DMSO. Limited solubility in ethanol and methanol. Poor water solubility.

Application Notes

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. UK-1 acts as a magnesium ion-dependent DNA binding agent and inhibitor of human topoisomerase II.

References

1. 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.
2. UK-1, a novel cytotoxic metabolite from *Streptomyces* sp. 517-02. II Structure elucidation. Shibata K. J. Antibiot. 1993, 46, 1095.
3. 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.

Updated: 2 December 2014