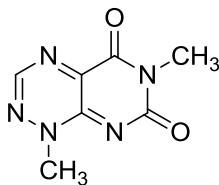


Toxoflavin

Code No.: **BIA-T1522**

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



Synonyms : 1-Methylreumycin, PKF118-310, Xanthrothricin

Specifications

CAS #	: 84-82-2
Molecular Formula	: C₇H₇N₅O₂
Molecular Weight	: 193.2
Source	: <i>Streptomyces</i> sp.
Appearance	: Yellow solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Toxoflavin is a distinctive yellow pigment produced by some species of *Pseudomonas* and *Streptomyces*. Toxoflavin is one of two toxins produced when a fermented coconut drink, Tempe bonkrek, is contaminated with *P. cocovenenans*. Toxoflavin (PKF 118-310) is a potent antagonist of Tcf4/b-catenin signalling, inhibiting the expression of survivin and inducing apoptosis in several tumor cell lines.

References

1. Van Damme P.A. et al. Rec. Trav. Chim. 1960, 79, 255 (1960).
2. On the biosynthesis of toxoflavin, an azapteridine antibiotic produced by *Pseudomonas cocovenenans*. Levenberg B. & Linton S.N. J. Biol. Chem. 1966, 241, 846.
3. Small molecule antagonists of Tcf4/beta-catenin complex inhibit the growth of HCC cells in vitro and in vivo. Wei W. et al. Int J. Cancer. 2010, 126, 2426.
4. Small-molecule antagonists of the oncogenic Tcf/beta-catenin protein complex. Lepourcelet M. et al. Cancer Cell. 2004, 5, 91.

Updated: 2 December 2014