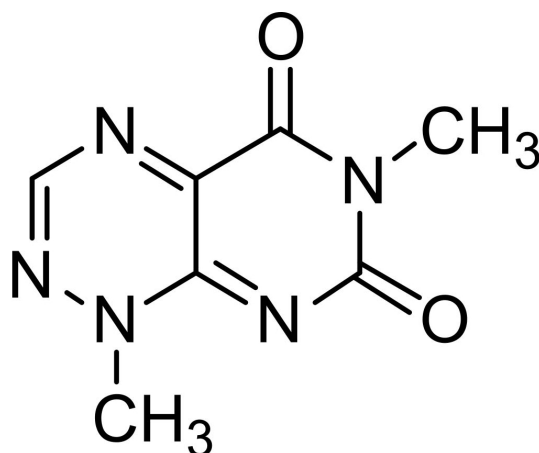


## Toxoflavin

Code No.: BIA-T1522

Pack sizes.: 1mg, 5mg



### Synonyms:

1-Methylreumycin, PKF118-310, Xanthrothricin

## Specifications

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

## 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.