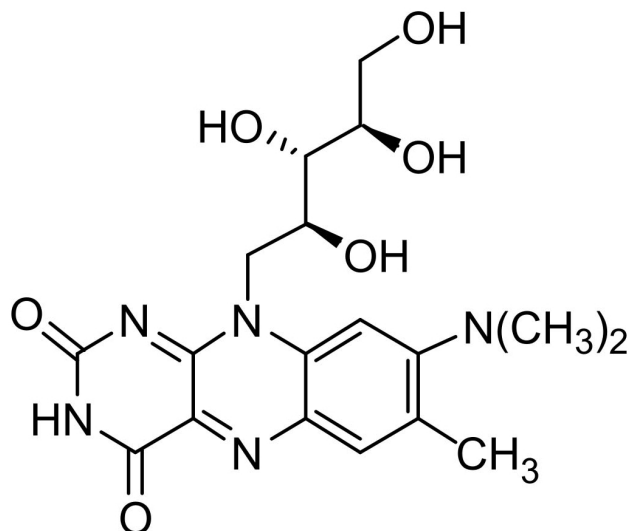


Roseoflavin

Code No.: BIA-R1535

Pack sizes.: 1mg, 5mg



Synonyms:

8-Dimethylaminoriboflavin, Roseoflavine

Specifications

CAS #	: 51093-55-1
Molecular Formula	: C18H23N5O6
Molecular Weight	: 405.4
Source	: -
Appearance	: Red solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Roseoflavin is an antibacterial pigment isolated from *Streptomyces davawensis* as an anti-metabolite of riboflavin. Roseoflavin is used as a substrate to mimic riboflavin in flavin biosynthesis, but leading to the formation of inactive flavin co-factors. More recently, roseoflavin has been shown to be an important regulator of bacterial gene expression by binding to untranslated regions of RNA, so-called ribo-switching sites.

References

1. Roseoflavin, a new antimicrobial pigment from *Streptomyces*. Otani S. et al., *J. Antibiot.* 1994, 27, 86.
2. The bifunctional flavokinase/flavin adenine dinucleotide synthetase from *Streptomyces davawensis* produces inactive flavin cofactors and is not involved in resistance to the antibiotic roseoflavin. Grill S. et al., *J.*

Bacteriol. 2008, 190, 1546.

3. Riboswitches as antibacterial drug targets Blount K.F. & Breaker R.R.: Nat. Biotechnol. 2006, 24, 1558.