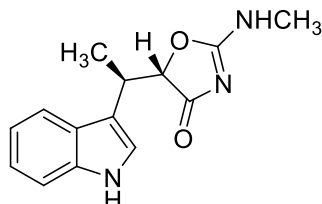


Indolmycin

Code No.: **BIA-I1040**

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



Synonyms : PA 155A

Specifications

CAS #	: 21200-24-8
Molecular Formula	: C₁₄H₁₅N₃O₂
Molecular Weight	: 257.3
Source	: <i>Streptomyces</i> sp.
Appearance	: White powder
Purity	: >95% by HPLC (total diastereomers)
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Indolmycin is a highly selective antibiotic which acts as a tryptophan anti-metabolite. Recent research has shown that indolmycin is active against Mycobacteria and *H. pylori*, and can stimulate transcription in *Escherichia coli*.

References

1. Indolmycin resistance of *Streptomyces coelicolor* A3(2) by induced expression of one of its two tryptophanyl-tRNA synthetases. Kitabatake M. et al., *J Biol Chem.* 2002, 277, 23882.
2. Indolmycin-mediated inhibition and stimulation of transcription at the *trp* promoter of *Escherichia coli*. Bogosian G. et al., *J Bacteriol.* 1983, 153, 1120.
3. Development of a stereoselective practical synthetic route to indolmycin, a candidate anti-*H. pylori* agent. Hasuoka A. et al., *Chem Pharm. Bull.* 2001, 49, 1604.