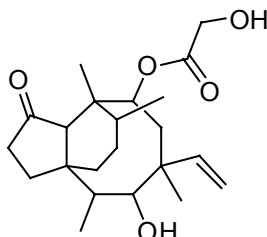


## Pleuromutilin

Code: **BIA-P1204**

Pack sizes: **25 mg, 100 mg**



Synonyms : **Drosophilin B, Antibiotic A 40104C**

## Specifications

CAS # : **125-65-5**  
Molecular Formula : **C<sub>22</sub>H<sub>34</sub>O<sub>5</sub>**  
Molecular Weight : **378.5**  
Source : ***Pleurotus* sp. MST-FP2115A**  
Appearance : **White solid**  
Purity : **> 95%**  
Long Term Storage : **- 20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

## Application Notes

Pleuromutilin is a diterpene produced by several species of basidiomycetes, notably the genus *Pleurotus*, discovered in 1951. Pleuromutilin is a potent and highly selective antibiotic active against a range of Gram positive bacteria with no cross resistance to existing antibiotic classes due to its unique mode of action. Pleuromutilin inhibits protein synthesis by binding to domain V of 23S rRNA and this has led to the development of many semi-synthetic analogues as new generation antibiotics, such as tiamulin and retapamulin.

## References

1. Antibiotic substances from basidiomycetes. VIII. *Pleurotus mutilus* (Fr.) Sacc. & *Pleurotus passeckerianus* Pilat. Kavanagh F. et al., Proc. Natl. Acad. Sci. USA 1951, 37, 570.
2. Pleuromutilin antibiotics. Hunt E., Drugs Future 2000, 25, 1163.
3. Pleuromutilins. Part 1. The identification of novel mutilin 14-carbamates. Brooks G. et al., Bioorg. Med. Chem. 2001, 9, 1221.