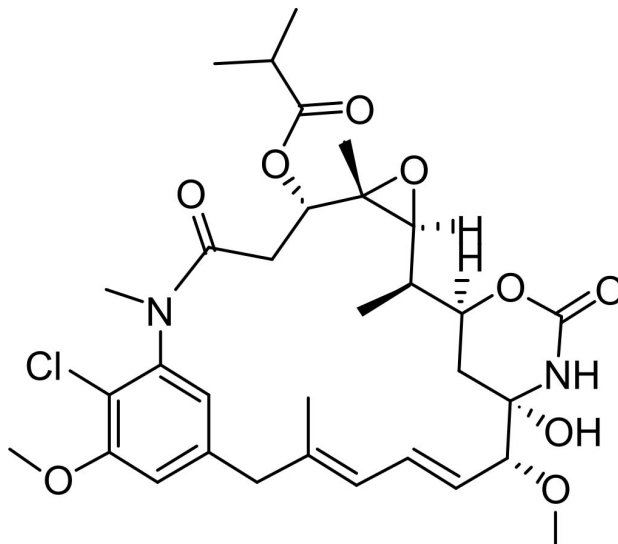


## Ansamitocin P3

Code No.: BIA-A2536

Pack sizes.: 0.1mg, 0.5mg



### Synonyms:

Ansamitosin P 3, Antibiotic C 15003P3, Maytansinol isobutyrate, NSC 292222

## Specifications

CAS #	: <b>66584-72-3</b>
Molecular Formula	: <b>C32H43ClN2O9</b>
Molecular Weight	: <b>635.14</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

## Application Notes

Ansamitocins were first reported in the journal Nature in 1977 by scientists from Takeda Chemical Industries as a new group of ansamycin antibiotics with potent antitumor activity. Anisomitocin P3 is the 3-O-methylpropanoyl derivative of maytansinol produced by bacteria rather than maytansinoid-producing plants. Ansamitocin P3 inhibits the growth of several eukaryotic microorganisms but has no activity against prokaryotic microorganisms. The acyl moieties at the C-3 position of ansamitocins are essential for their antifungal activities. Ansamitocin P3 targets cell division protein FtsZ, the analogue of  $\beta$ -tubulin in bacteria.

## References

1. Ansamitocin, a group of novel maytansinoid antibiotics with antitumour properties from Nocardia. Higashide

E. et al. *Nature* 1977, 270, 721.

2. Ansamitocins, maytansinoid antitumor antibiotics: Producing organism, fermentation, and antimicrobial activities. Tanida S. et al. *J. Antibiot.* 1980, 33, 192.
3. Effects of new antimitotic antibiotics, ansamitocins, on the growth of murine tumors in vivo and on the assembly of microtubules in vitro. Ootsu K. et al. *Cancer Res* 1980, 40, 1707.