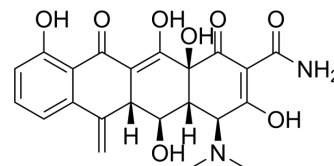


## Methacycline

Cat. No.:	HY-W587701
CAS No.:	914-00-1
Molecular Formula:	C <sub>22</sub> H <sub>22</sub> N <sub>2</sub> O <sub>8</sub>
Molecular Weight:	442.42
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Methacycline is a tetracycline antibiotic that inhibits bacterial protein synthesis. Methacycline is a potent inhibitor of epithelial-to-mesenchymal transition (EMT). Methacycline blocks EMT in vitro and inhibits fibrogenesis in vivo without directly affecting TGF- $\beta$ 1 Smad signaling. Methacycline is an antimicrobial agent with potential for use in pulmonary fibrosis research<sup>[1]</sup>.

### CUSTOMER VALIDATION

- EBioMedicine. 2022 Apr;78:103943.
- SLAS Discov. 2020 Sep;25(8):895-905.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. Ying Xi, et al. Inhibition of epithelial-to-mesenchymal transition and pulmonary fibrosis by methacycline. Am J Respir Cell Mol Biol. 2014 Jan;50(1):51-60.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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