

Product Datasheet

tilivalline

Catalog No. **BP-00039** · CAS **80279-24-9** · Form **free base** · Physical state **solid** · Version **1.0** · Revision **2026-09-15**

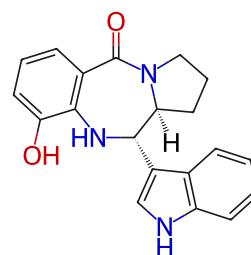
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Target Apoptosis	Research area Inflammation/Immunology
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Molecular formula **C₂₀H₁₉N₃O₂**

Molecular weight **333.3838**

STRUCTURE



DESCRIPTION

Tilivalline is an enterotoxin that can be produced by *Klebsiella oxytoca*. Tilivalline shows cytotoxicity against carcinoma cells. Tilivalline induces epithelial apoptosis. Tilivalline causes antibiotic-associated hemorrhagic colitis (AAHC).

BIOLOGICAL ACTIVITY

Tilivalline is a cytotoxic molecule produced by acid-producing *Klebsiella*.

REFERENCES

- [1]. Hering NA, et al. Tilivalline- and Tilimycin-Independent Effects of *Klebsiella oxytoca* on Tight Junction-Mediated Intestinal Barrier Impairment. *Int J Mol Sci.* 2019 Nov 8;20(22):5595.
- [2]. von Tesmar A, et al. Biosynthesis of the *Klebsiella oxytoca* Pathogenicity Factor Tilivalline: Heterologous Expression, in Vitro Biosynthesis, and Inhibitor Development. *ACS Chem Biol.* 2018 Mar 16;13(3):812-819.

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