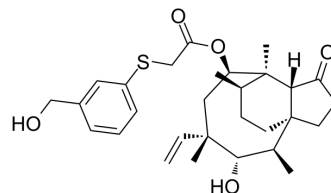


BC-7013

| | |
|---------------------------|--|
| Cat. No.: | HY-113640 |
| CAS No.: | 1028291-66-8 |
| Molecular Formula: | C ₂₉ H ₄₀ O ₅ S |
| Molecular Weight: | 500.69 |
| Target: | Bacterial |
| Pathway: | Anti-infection |
| Storage: | 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (199.72 mM; Need ultrasonic)

| Concentration | Mass | | |
|---------------|-----------|-----------|------------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 1.9972 mL | 9.9862 mL | 19.9724 mL |
| 5 mM | 0.3994 mL | 1.9972 mL | 3.9945 mL |
| 10 mM | 0.1997 mL | 0.9986 mL | 1.9972 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BC-7013 is a novel semi-synthetic pleuromutilin derivative. BC-7013 has excellent activity against Gram-positive pathogenic bacteria. BC-7013 exhibits potent antibacterial properties against both Staphylococcus, Streptococcus and penicillin-resistant Streptococcus pneumoniae. BC-7013 has activity against Gram-positive pathogenic bacteria, BC-7013 is useful in the research of acute bacterial skin and skin structure infection (ABSSSI)^[1].

IC₅₀ & Target

MIC₅₀: 0.015 μg/mL (303 tested *S. aureus* isolates)^[2]

In Vitro

BC-7013 shows strong inhibitory activity against 303 tested *S. aureus* isolates with a MIC₅₀ value of 0.015 μg/mL^[2]. BC-7013 exhibits potent activity against group A streptococci and group B streptococci with MIC₉₀ values of 0.03 μg/mL and 0.06 μg/mL, respectively^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shang R, et al. Efficient antibacterial agents: a review of the synthesis, biological evaluation and mechanism of pleuromutilin derivatives. *Curr Top Med Chem*.

2013;13(24):3013-25.

[2]. Biedenbach D J, et al. In vitro antibacterial spectrum of BC-7013, a novel pleuromutilin derivative for topical use in humans. Interscience Conference on Antimicrobial Agents and Chemotherapy. 2009, 49: 199

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

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