

GE 2270A

Cat. No.:	HY-106882
CAS No.:	134861-34-0
Molecular Formula:	C ₅₆ H ₅₅ N ₁₅ O ₁₀ S ₆
Molecular Weight:	1290.52
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	GE 2270A (MDL 62879) is an antibiotic. GE 2270A inhibits gram-positive bacteria and anaerobes by inhibiting protein synthesis. GE 2270A can be used for the research of infection ^{[1][2]} .
IC ₅₀ & Target	IC ₅₀ : 0.4 μM (poly(U)-directed poly(Phe) synthesis) ^[2]
In Vitro	GE 2270A (0.01-100 mg/L) inhibits poly(U)-directed poly(Phe) synthesis in cell-free systems with an IC ₅₀ value of 0.12 mg/L ^[1] . GE 2270A (0-0.1 mM; 10 min) is a strong inhibitor of protein biosynthesis in vitro as determined in a minimal E. coli purified system for poly(U)-directed poly(Phe) synthesis with an IC ₅₀ value of 0.4 μM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Landini P, B et al. Inhibition of bacterial protein synthesis by elongation-factor-Tu-binding antibiotics MDL 62,879 and efrotomycin. *Biochem J.* 1992 May 1;283 (Pt 3):649-52.
- [2]. Anborgh PH, Parmeggiani A. New antibiotic that acts specifically on the GTP-bound form of elongation factor Tu. *EMBO J.* 1991 Apr;10(4):779-84.

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

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