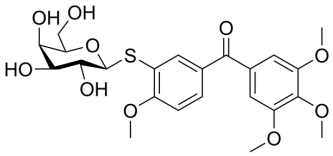
Antibacterial agent 130

Cat. No.:	HY-152175
CAS No.:	1502721-60-9
Molecular Formula:	$C_{23}H_{28}O_{10}S$
Molecular Weight:	496.53
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antibacterial agent 130 is a 1,1-diarylthiogalactoside, used for targeting the Pseudomonas aeruginosa LecA. Antibacterial agent 130 shows high affinity toward LecA (K_d=1 μM). Antibacterial agent 130 has antibiofilm activity, but lacks bactericidal activity. LecA, a lectin and virulence factor from Pseudomonas aeruginosa involved in bacterial adhesion and biofilm formation[1].
In Vitro	Antibacterial agent 130 (compound 8a) (0.08-5 mM; 2-24 h) dose-dependently inhibits bacterial biofilm formation with 100% of inhibition at 5 mM[1]. Antibacterial agent 130 (0.01-5 mM; 24 h) has cytotoxicity against MRC-5 cell line (human fetal lung fibroblast cells) at concentration higher than 1.25 mM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bruneau A, et al. Discovery of potent 1,1-diarylthiogalactoside glycomimetic inhibitors of Pseudomonas aeruginosa LecA with antibiofilm properties. Eur J Med Chem. 2022 Dec 15;247:115025.

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