Product Data Sheet

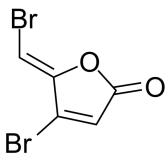
Furanone C-30

Cat. No.: HY-131011 CAS No.: 247167-54-0 Molecular Formula: $C_5H_2Br_2O_2$ Molecular Weight: 253.88 Target: Bacterial Pathway: Anti-infection

Storage: -20°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)



BIOLOGICAL ACTIVITY

Description	Furanone C-30 is a quorum sensing inhibitor. Furanone C-30 can effectively inhibit bacterial biofilm formation by S. mutans and its luxSmutant strain ^[1] .			
IC ₅₀ & Target	Bacterial $biofilm^{[1]}$			
In Vitro	The difference in the OD590 values is statistically significant at concentrations of 2.0 μ g/mL and 4.0 μ g/mL compared with the control group. Furanone C-30 (2.0 μ g/mL and 4.0 μ g/mL) can inhibit biofilm formation by S. mutans and its luxS mutant strain, although it does not affect the bacterial growth rate itself ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]			
	Cell Line:	Streptococcus mutans UA159 and its luxS mutant strain		
	Concentration:	0.0, 2.0 and 4.0 μg/mL		
	Incubation Time:	24 hours		

μg/mL, a decrease of 61.5% and 60.3%, respectively.

When 2.0 $\mu g/mL$ was added, the OD590 values for S. mutans and its luxS mutant strain decreased by 42.7% and 40.8%, respectively. When the concentration was increased to 4.0

CUSTOMER VALIDATION

• Microbiol Spectr. 2021 Nov 3;9(3):e0123121.

See more customer validations on www.MedChemExpress.com

Result:

REFERENCES

1]. Zhiyan He, et al. Use of the Antimicrob Agents. 2012 Jul;40		ranone C-30 to interfere with biof	ilm formation by Streptococcus mutans and it	ts luxS mutant strain. Int J
	Caution: Product has n	ot been fully validated for me	edical applications. For research use only	<i>.</i>
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