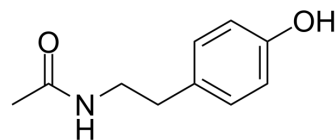


N-Acetyltyramine

Cat. No.:	HY-120504		
CAS No.:	1202-66-0		
Molecular Formula:	C ₁₀ H ₁₃ NO ₂		
Molecular Weight:	179.22		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (557.97 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.5797 mL	27.8987 mL	55.7973 mL
	5 mM	1.1159 mL	5.5797 mL	11.1595 mL
	10 mM	0.5580 mL	2.7899 mL	5.5797 mL

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

BIOLOGICAL ACTIVITY

Description

N-Acetyltyramine is a quorum-sensing inhibitor (QSI) compound produced by *V. alginolyticus* M3-10. N-Acetyltyramine is capable of inhibiting the QS of *C. violaceum* ATCC 12472. N-acetyltyramine reverses resistance in Doxorubicin-resistant leukemia P388 cells^{[1][2]}.

In Vitro

N-Acetyltyramine enhances cytotoxicity of doxorubicin in resistant P388 murine leukemia cells with an IC₅₀ value of 0.13 μg/ml compared with an IC₅₀ value of 0.48 μg/ml for doxorubicin alone^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Reina JC, et al. A Quorum-Sensing Inhibitor Strain of *Vibrio alginolyticus* Blocks Qs-Controlled Phenotypes in *Chromobacterium violaceum* and *Pseudomonas aeruginosa*. *Mar Drugs*. 2019;17(9):494. Published 2019 Aug 24.

[2]. Kunimoto S, et al. Reversal of resistance by N-acetyltyramine or N-acetyl-2-phenylethylamine in doxorubicin-resistant leukemia P388 cells. *J Antibiot (Tokyo)*.

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

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