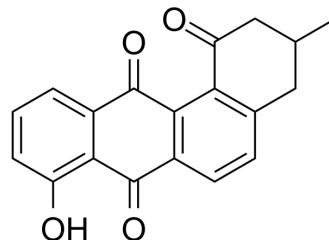


Ochromycinone

Cat. No.:	HY-18061		
CAS No.:	111540-00-2		
Molecular Formula:	C ₁₉ H ₁₄ O ₄		
Molecular Weight:	306.31		
Target:	STAT; Bacterial		
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; 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 : 16.67 mg/mL (54.42 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.2647 mL	16.3233 mL	32.6467 mL
		5 mM	0.6529 mL	3.2647 mL	6.5293 mL
10 mM		0.3265 mL	1.6323 mL	3.2647 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (5.45 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Ochromycinone ((Rac)-STA-21) is a natural antibiotic and a STAT3 inhibitor. Ochromycinone can inhibits STAT3 DNA binding activity, STAT3 dimerization. Ochromycinone has anticancer and antimicrobial activity ^{[1][2]} .
IC₅₀ & Target	STAT3
In Vitro	STA-21 inhibits STAT3 DNA binding activity, STAT3 dimerization, and STAT3-dependent luciferase activity. Moreover, STA-21 reduces the survival of breast carcinoma cells with constitutive STAT3 signaling but has minimal effect on the cells in which constitutive STAT3 signaling is absent ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nutrients. 2016 May 11;8(5). pii: E280.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Song H, et al. A low-molecular-weight compound discovered through virtual database screening inhibits Stat3 function in breast cancer cells. Proc Natl Acad Sci U S A. 2005 Mar 29;102(13):4700-5.

[2]. Nataliya I. Kalinovskaya, et al. New Angucyclinones from the Marine Mollusk Associated Actinomycete *Saccharothrix espanaensis* An 113. Natural product communications. 2008, 3(10):1611-1616.

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

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