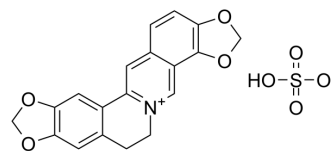


Coptisine Sulfate

Cat. No.:	HY-N0430A
CAS No.:	1198398-71-8
Molecular Formula:	C ₁₉ H ₁₅ NO ₈ S
Molecular Weight:	417.39
Target:	Indoleamine 2,3-Dioxygenase (IDO)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1 mg/mL (2.40 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3958 mL	11.9792 mL	23.9584 mL
	5 mM	---	---	---
	10 mM	---	---	---
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Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Coptisine Sulfate is an alkaloid from Chinese goldthread, and acts as an efficient uncompetitive IDO inhibitor with a K_i value of 5.8 μM and an IC₅₀ value of 6.3 μM^[1].

IC₅₀ & Target

IC₅₀: 6.3 μM (IDO)^[1]
K_i: 5.8 μM (IDO)^[1]

CUSTOMER VALIDATION

- DNA Cell Biol. 2020 Oct 2.
- SSRN. 2024 Apr 1.
- J Oncol. 26 Jun 2022.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Yu D, et al. The IDO inhibitor coptisine ameliorates cognitive impairment in a mouse model of Alzheimer's disease. J Alzheimers Dis. 2015;43(1):291-302.

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

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