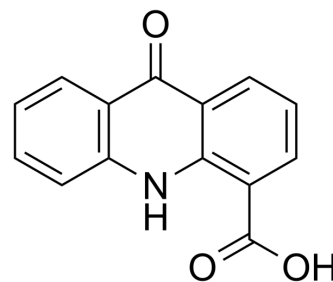


Acridone-4-carboxylic acid

Cat. No.:	HY-34887		
CAS No.:	24782-64-7		
Molecular Formula:	C ₁₄ H ₉ NO ₃		
Molecular Weight:	239.23		
Target:	Others		
Pathway:	Others		
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 (418.01 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.1801 mL	20.9004 mL	41.8008 mL
	5 mM	0.8360 mL	4.1801 mL	8.3602 mL
	10 mM	0.4180 mL	2.0900 mL	4.1801 mL

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

BIOLOGICAL ACTIVITY

Description

Acridone-4-carboxylic acid (ACA) (Compound 2c) is a heme-interacting acridone derivatives that prevents free heme-mediated protein oxidation and degradation. Acridone-4-carboxylic acid inhibits protein carbonyl formation with an IC₅₀ of 43 μM^[1].

REFERENCES

[1]. Pal C, et al. Synthesis of novel heme-interacting acridone derivatives to prevent free heme-mediated protein oxidation and degradation. *Bioorg Med Chem Lett*. 2011 Jun 15;21(12):3563-7.

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

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