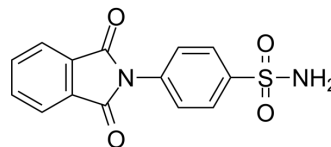


Carbonic anhydrase inhibitor 16

Cat. No.:	HY-163109		
CAS No.:	4479-70-3		
Molecular Formula:	C ₁₄ H ₁₀ N ₂ O ₄ S		
Molecular Weight:	302.31		
Target:	Carbonic Anhydrase		
Pathway:	Metabolic Enzyme/Protease		
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 (330.79 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.3079 mL	16.5393 mL	33.0786 mL
5 mM	0.6616 mL	3.3079 mL	6.6157 mL
10 mM	0.3308 mL	1.6539 mL	3.3079 mL

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

BIOLOGICAL ACTIVITY

Description

Carbonic anhydrase inhibitor 16 (compound 1) is a dengue protease inhibitor with inhibitory activity against carbonic anhydrase hCA I and hCA II (K_i: 28.5 nM, 2.2 nM)^[1].

IC₅₀ & Target

K_i: 28.5 nM (hCA I), 2.2 nM (hCA II)^[1]

REFERENCES

[1]. Shilkar D, et al. Carbonic anhydrase inhibitory activity of phthalimide-capped benzene sulphonamide derivatives. J Enzyme Inhib Med Chem. 2023 Dec;38(1):2235089.

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

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