1,2-Diaminoanthraquinone

Cat. No.:	HY-W013435	
CAS No.:	1758-68-5	0
Molecular Formula:	C ₁₄ H ₁₀ N ₂ O ₂	, Ĭ
Molecular Weight:	238.25	
Target:	Fluorescent Dye	
Pathway:	Others	
Storage:	4°C, protect from light, stored under nitrogen	0
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under	
	nitrogen)	

SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.1973 mL	20.9864 mL	41.9727 mL
	5 mM	0.8395 mL	4.1973 mL	8.3945 mL
	10 mM	0.4197 mL	2.0986 mL	4.1973 mL

DIOLOGICAL ACTIV					
Description	1,2-Diaminoanthraquinone is a sensitivity, specificity and nontoxic nitric oxide (NO) fluorescent probe. 1,2- Diaminoanthraquinone can be used to detect NO productions in live cell and animals with a maximum of absorption at about 540 nm and a detection limit of 5 μ M for NO ^{[1][2]} .				
In Vitro	1,2-Diaminoanthraquinone and the product formed upon its reaction with NO, DAA-TZ, can be spectrally resolved using fluorescence spectroscopy and confocal microscopy ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Immunofluorescence ^[1]				
	Concentration: Incubation Time:	27.4 μM 20 min			
	Result:	Reacted with NO in the presence of oxygen in the intracellular environment to yield DAA- TZ.			

Product Data Sheet

 NH_2

.NH₂

REFERENCES

[1]. María J Marín, et al. Fluorescence of 1,2-diaminoanthraquinone and its nitric oxide reaction product within macrophage cells. Chembiochem. 2011 Nov 4;12(16):2471-7.

[2]. Francisco Galindo, et al. Spectroscopic studies of 1,2-diaminoanthraquinone (DAQ) as a fluorescent probe for the imaging of nitric oxide in living cells. Photochem Photobiol Sci. 2008 Jan;7(1):126-30.

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

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