



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

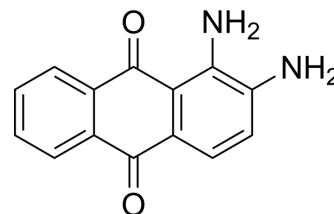
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## 1,2-Diaminoanthraquinone

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



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 62.5 mg/mL (262.33 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		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

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

### BIOLOGICAL ACTIVITY

#### 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 μM for NO<sup>[1][2]</sup>.

#### 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<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Immunofluorescence<sup>[1]</sup>

Cell Line:	Raw 264.7 macrophage cells
Concentration:	27.4 μM
Incubation Time:	20 min
Result:	Reacted with NO in the presence of oxygen in the intracellular environment to yield DAA-TZ.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA