



# 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

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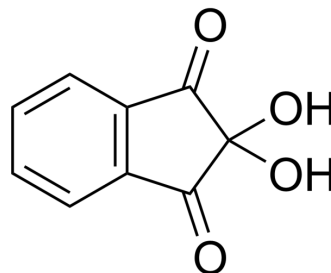
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## Ninhydrin

<b>Cat. No.:</b>	HY-D0908		
<b>CAS No.:</b>	485-47-2		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>6</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	178.14		
<b>Target:</b>	Fluorescent Dye		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (280.68 mM; Need ultrasonic)  
 H<sub>2</sub>O : 25 mg/mL (140.34 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		5.6136 mL	28.0678 mL	56.1356 mL
	5 mM		1.1227 mL	5.6136 mL	11.2271 mL
	10 mM		0.5614 mL	2.8068 mL	5.6136 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
 Solubility: 25 mg/mL (140.34 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Ninhydrin can be used as a chromogenic analytical probe for the quantification of amino acids and proteins.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: chromogenic analytical probe<sup>[1]</sup>

#### In Vitro

Ninhydrin is used in amino acid analysis of proteins. Except proline, Most amino acids can be hydrolyzed and react with ninhydrin. The amino acids are then quantified colorimetrically after separation by chromatography.

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Ninhydrin reacts with primary and secondary amines producing a blue or purple reaction product: diketohydrindylidene-diketohydrindamine.

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

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## REFERENCES

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[1]. Omar MA, et al. Utility of ninhydrin reagent for spectrofluorimetric determination of heptaminol in human plasma. *Luminescence*. 2018 Sep;33(6):1107-1112.

[2]. Anantharaman S, et al. Ninhydrin-sodium molybdate chromogenic analytical probe for the assay of amino acids and proteins. *Spectrochim Acta A Mol Biomol Spectrosc*. 2017 Feb 15;173:897-903.

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

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