



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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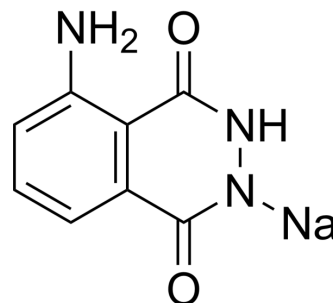
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## Luminol sodium salt

Cat. No.:	HY-15922A
CAS No.:	20666-12-0
Molecular Formula:	C <sub>8</sub> H <sub>6</sub> N <sub>3</sub> NaO <sub>2</sub>
Molecular Weight:	199.14
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (502.16 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	5.0216 mL	25.1080 mL	50.2159 mL
5 mM	1.0043 mL	5.0216 mL	10.0432 mL
10 mM	0.5022 mL	2.5108 mL	5.0216 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Luminol sodium salt is a chemical that exhibits chemiluminescence with pK<sub>a</sub> values of 6.74 and 15.1. Luminol sodium salt exhibits chemiluminescence (CL) at 425 nm λ<sub>max</sub>. Luminol sodium salt is commonly used in forensics as a diagnostic tool for the detection of blood stains<sup>[1]</sup>.

#### In Vitro

Luminol concentration is an important factor that affects Chemiluminescence (CL) intensity. The intensity of Luminol chemiluminescence (LCL) does not depend on the concentration of Luminol alone, but also on other factors like concentration of oxidizing agents, enzymes, and pH. Maximum recorded CL intensity was at a Luminol concentration of 0.3 mM. CL intensity increased linearly with increasing concentrations of Luminol in the range of 0.01 to 0.3 mM. However, further increases of Luminol concentration caused a decrease in CL intensity<sup>[1]</sup>.

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

### CUSTOMER VALIDATION

- J Leukoc Biol. 2023 May 26;qiad063.

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See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Michael Mayer, et al. Shedding Light on the Diversity of Surfactant Interactions with Luminol Electrochemiluminescence for Bioanalysis. Anal Chem. 2019 Oct 15;91(20):13080-13087.

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

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