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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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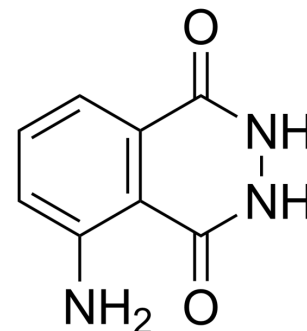
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Luminol

Cat. No.:	HY-15922
CAS No.:	521-31-3
Molecular Formula:	C ₈ H ₇ N ₃ O ₂
Molecular Weight:	177.16
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 30 mg/mL (169.34 mM) * "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	5.6446 mL	28.2231 mL	56.4461 mL
			5 mM	1.1289 mL	5.6446 mL	11.2892 mL
			10 mM	0.5645 mL	2.8223 mL	5.6446 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (11.74 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (11.74 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (11.74 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Luminol is a chemical that exhibits chemiluminescence with pK _a values of 6.74 and 15.1. Luminol exhibits chemiluminescence (CL) at 425 nm λ _{max} . Luminol is commonly used in forensics as a diagnostic tool for the detection of blood stains ^[1] .
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^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Leukoc Biol. 2023 May 26;qiad063.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

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

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