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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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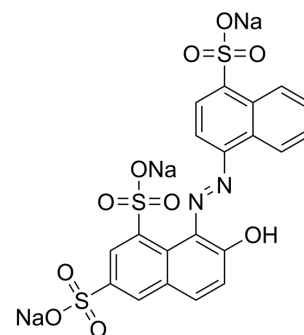
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Ponceau 4R

Cat. No.:	HY-D0193
CAS No.:	2611-82-7
Molecular Formula:	C ₂₀ H ₁₁ N ₂ Na ₃ O ₁₀ S ₃
Molecular Weight:	604.47
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 ₂ O : 25 mg/mL (41.36 mM; Need ultrasonic)																					
	DMSO : 10 mg/mL (16.54 mM; ultrasonic and warming and heat to 60°C)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>1.6543 mL</td> <td>8.2717 mL</td> <td>16.5434 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3309 mL</td> <td>1.6543 mL</td> <td>3.3087 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1654 mL</td> <td>0.8272 mL</td> <td>1.6543 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	1.6543 mL	8.2717 mL	16.5434 mL	5 mM	0.3309 mL	1.6543 mL	3.3087 mL	10 mM	0.1654 mL	0.8272 mL	1.6543 mL
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Please refer to the solubility information to select the appropriate solvent.																						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: PBS Solubility: 50 mg/mL (82.72 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (1.65 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (1.65 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Ponceau 4R is a synthetic colorant that can be used for food coloring. Ponceau 4R is a strawberry red azo dye that can be used in a variety of foods, usually synthesized from aromatic hydrocarbons, and is stable to light, heat, and acids ^{[1][2]} .
In Vivo	Ponceau 4R (31, 37, 137 mg/kg for cats, dogs, fish, added to feed) is a maximum safe dose with no effect on cats, dogs and fish ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Small. 2023 Aug 21;e2207606.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Rychen G, et al. Safety and efficacy of ponceau 4R for cats, dogs and ornamental fish. EFSA J. 2018 Mar 29;16(3):e05222.
- [2]. Dong Y, et al. Quantification of Ponceau 4R in Foods by Indirect Competitive Enzyme-Linked Immunosorbent Assay (icELISA). J Agric Food Chem. 2015 Jul 22;63(28):6338-45.
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Caution: Product has not been fully validated for medical applications. For research use only.

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