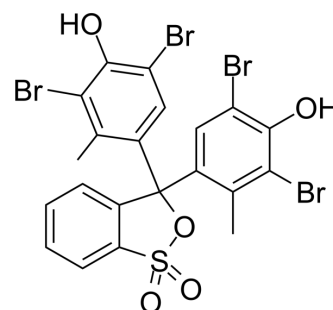


Bromocresol green

Cat. No.:	HY-W040144
CAS No.:	76-60-8
Molecular Formula:	C ₂₁ H ₁₄ Br ₄ O ₃ S
Molecular Weight:	698.01
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (143.26 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		1.4326 mL	7.1632 mL	14.3264 mL
		5 mM		0.2865 mL	1.4326 mL	2.8653 mL
		10 mM		0.1433 mL	0.7163 mL	1.4326 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.58 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	<p>Bromocresol green is a pH-sensitive triphenylmethane dye commonly used for the determination of protein and albumin in serum. Bromocresol green is a bio-based dye with a yellow-green to blue-green color. Bromocresol green turns yellow ($\lambda_{\text{max}}=435$ nm, protonated form) when placed in acidic solution (e.g. pH=4.15), and turns blue in basic solution ($\lambda_{\text{max}}=615$ nm, deprotonated form). Bromocresol green is widely used as a pH indicator in the field of biochemical analysis. In addition, Bromocresol green is also used to detect the concentration of molecules such as creatinine, and to judge the viability of cells [1][2][3][4].</p>
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REFERENCES

- [1]. Delanghe S, et al. Binding of bromocresol green and bromocresol purple to albumin in hemodialysis patients. Clin Chem Lab Med. 2018 Feb 23;56(3):436-440.
- [2]. Jurmanović S, et al. Organically modified silicate thin films doped with colourimetric pH indicators methyl red and bromocresol green as pH responsive sol-gel hybrid materials[J]. Thin Solid Films, 2010, 518(8): 2234-2240.

[3]. Chaiyo S, et al. A novel paper-based colorimetry device for the determination of the albumin to creatinine ratio. Analyst. 2018 Nov 5;143(22):5453-5460.

[4]. Hou H, et al. Single-cell pH imaging and detection for pH profiling and label-free rapid identification of cancer-cells. Sci Rep. 2017 May 11;7(1):1759.

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

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