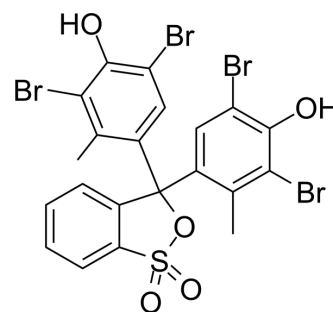


## Bromocresol green

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



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (143.26 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.4326 mL	7.1632 mL	14.3264 mL
		<b>5 mM</b>		0.2865 mL	1.4326 mL	2.8653 mL
<b>10 mM</b>		0.1433 mL	0.7163 mL	1.4326 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	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

<b>Description</b>	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 ( $\lambda_{max}$ =435 nm, protonated form) when placed in acidic solution (e.g. pH=4.15), and turns blue in basic solution ( $\lambda_{max}$ =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].
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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.

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[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.

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

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