



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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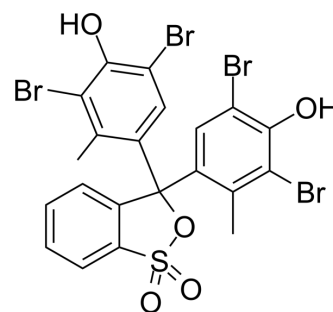
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## Bromocresol green

<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)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		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.					
<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>	<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 (<math>\lambda_{\text{max}}=435</math> nm, protonated form) when placed in acidic solution (e.g. pH=4.15), and turns blue in basic solution (<math>\lambda_{\text{max}}=615</math> 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.

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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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