# **Product** Data Sheet



## **Bromophenol blue**

Cat. No.: HY-B1571 CAS No.: 115-39-9

Molecular Formula:  $\mathsf{C}_{19}\mathsf{H}_{10}\mathsf{Br}_4\mathsf{O}_5\mathsf{S}$ 

669.96 Molecular Weight:

Target: Fluorescent Dye

Pathway: Others

4°C, sealed storage, away from moisture and light Storage:

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

and light)

### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 50 mg/mL (74.63 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4926 mL	7.4631 mL	14.9263 mL
	5 mM	0.2985 mL	1.4926 mL	2.9853 mL
	10 mM	0.1493 mL	0.7463 mL	1.4926 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: ≥ 2.5 mg/mL (3.73 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.73 mM); Clear solution

#### **BIOLOGICAL ACTIVITY**

Description

Bromophenol blue is an acid phthalein dye, and it is used as a tracking dye for electrophoresis. Bromophenol blue is also used as a pH indicator, with a transition range of pH 3 to  $4.6^{[1][2]}$ .

### **REFERENCES**

- [1]. Mendoza L, et, al. Nanocellulose for gel electrophoresis. J Colloid Interface Sci. 2019 Mar 22; 540: 148-154.
- [2]. Dangui AZ, et, al. Preferential solvation bromophenol blue in water-alcohol binary mixture. Spectrochim Acta A Mol Biomol Spectrosc. 2018 Oct 5; 203: 333-341.
- [3]. Tanuja T Merianda, et al. Merianda TT, Lin AC, Lam JS, Vuppalanchi D, Willis DE, Karin N, Holt CE, Twiss JL. A functional equivalent of endoplasmic reticulum and Golgi

n axons for secretion of locally	synthesized proteins. Mol (	Cell Neurosci. 2009 Feb;40(2):128-4	42.	
			edical applications. For research use only.	
	Tel: 609-228-6898	Fax: 609-228-5909 1 Deer Park Dr, Suite Q, Monmo	E-mail: tech@MedChemExpress.com	
	710010551	i beer i ark bi, saite Q, moinin	Julii Juliction, NJ 00032, OSA	
	naaress.	i beer i ark bi, saice Q, moinik	outil Junction, NJ 00032, USA	
	, add ess.	i beer rank bi, saite Q, Monnik	outil sufficient, NS 00032, USA	
	Address	i beer rank bi, saite Q, Monnik	outil sufficient, NS 00032, USA	
	, add ess.	i beer rank bi, saite Q, Monnik	outil sufficient, NS 00032, OSA	
	, add ess.	i beer rank bi, saite Q, Moinik	outil sufficient, NS 08652, OSA	
	, add ess.	T Deer Tark D1, Saite Q, Morring	outil sufficient, NS 08652, OSA	
	, address.	T Deer Tark D1, Saite Q, Morring	outil sufficient, NS 00032, OSA	
	, add ess.	T Deer Tark D1, Saite Q, Morring	outil sufficient, NS 00032, OSA	
	, and to so	T Deer Tank D1, Sainte Q, Monnik	outil Juliction, NJ 08652, GSA	
			outil Juliction, NJ 08652, GSA	
	, and to so the sound of the so		outil sufficient, NS 00052, OSA	
			outil Junction, NJ 00032, USA	
			outil sufficient, NS 08652, OSA	
			outil sufficient, NS 00052, OSA	

Page 2 of 2 www.MedChemExpress.com