
Product Data Sheet

Product Name: Bromophenol Blue

Cat. No.: GC12740

Chemical Properties

Cas. No. 115-39-9

Chemical Name 3,3-bis(3,5-dibromo-4-hydroxyphenyl)-3H-benzo[c][1,2]oxathiole 1,1-dioxide

SMILES BrC(C=C(C=C1Br)C(C2=CC=CC=C2)C(C=C4Br)=CC(Br)=C4O)OS3(=O)=O)=C1OFormula C₁₉H₁₀Br₄O₅S M.Wt 669.96

Solubility ≥ 33.5mg/mL in EtOH Storage Store at RT

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

IC50: N/A

Bromophenol blue (3',3'',5',5''-tetrabromophenolsulfonphthalein) is widely used in gel loading buffers. Bromophenol blue is experimentally used as a color marker, a pH indicator, and a dye. Bromophenol blue can be prepared by slowly adding excess bromine to a hot solution of phenolsulfonphthalein in the presence of glacial acetic acid.

In vitro: Previous results showed that the adsorption process of bromophenol blue increased with the increase in the concentration of α-chitin nanoparticles (CNP), contact time and temperature, while the adsorption process decreased with increase in the initial dye concentration and strong acidic pH. The Fourier transform infrared spectroscopy results confirmed that the interaction between Bromophenol blue and CNP involved physical adsorption. The adsorption process obeyed Langmuir isotherm and pseudo second order kinetics more effectively. The isotherm and kinetic models

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

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confirmed that CNP could be used as a suitable adsorbent material for the removal of dyestuff, such as Bromophenol blue, from effluents [1].

In vivo: So far, bromophenol blue has not been employed in animal in vivo study.

Clinical trial: N/A

Reference:

[1] Dhananasekaran S, Palanivel R, Pappu S. Adsorption of Methylene Blue, Bromophenol Blue, and Coomassie Brilliant Blue by α -chitin nanoparticles. J Adv Res. 2016 Jan; 7(1):113-24.

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