Brilliant Blue R250

Cat. No.: HY-D0232

CAS No.: 6104-59-2

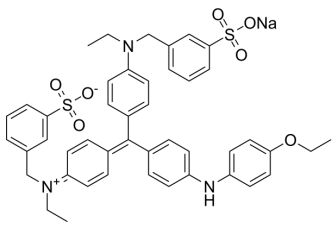
Molecular Formula: $C_{45}H_{44}N_3NaO_7S_2$

Molecular Weight: 825.97

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, sealed storage, away from moisture and light
* 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 (60.53 mM; Need ultrasonic)
H_2O : 2 mg/mL (2.42 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.2107 mL	6.0535 mL	12.1070 mL
5 mM	0.2421 mL	1.2107 mL	2.4214 mL
10 mM	0.1211 mL	0.6053 mL	1.2107 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: ≥ 1 mg/mL (1.21 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (1.21 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Brilliant blue R250 (Brilliant Blue R), an anionic dye, is the most popular stain to detect proteins resolved in SDS-PAGE gels[1].

In Vitro

Stain solution preparation:
Add 100 mL of glacial acetic acid to 450 mL ultrapure water.
Dissolve the 3 g of Coomassie Dye in 450 mL methanol.
Filter the solution before use
Standard Gel Staining Protocol
1. Gel may be prefixed in 50% MeOH, 10% HoAC, and 40% H2O for 30 minutes to overnight.
2. Stain gel in the above solution, with 0.25-0.3% Coomassie Blue R-250, for 2-4 hours, until the gel is a uniform blue color.

	Staining is complete when the gel is no longer visible in the dye solution. Berore complete staining, the gel will appear as a lighter area against the dark staining solution. 3. Destain for 4-24 hours in 5% MeOH, 7.5% HOAC, 87.5% H_2O. 4. Store gels in 7% HOAC. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Research Square Print. 2023 Feb 9.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Krause RGE, et al. Crystal violet stains proteins in SDS-PAGE gels and zymograms. Anal Biochem. 2019;566:107-115.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA