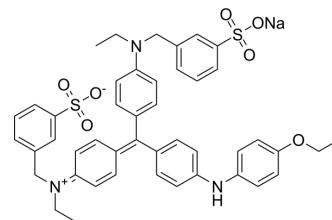


Brilliant Blue R250

| | |
|---------------------------|--|
| Cat. No.: | HY-D0232 |
| CAS No.: | 6104-59-2 |
| Molecular Formula: | C ₄₅ H ₄₄ N ₃ NaO ₇ S 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 ₂ O : 2 mg/mL (2.42 mM; ultrasonic and warming and heat to 60°C) | | | |
| | | Solvent Concentration | Mass | |
| | | | 1 mg | 5 mg |
| Preparing Stock Solutions | 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% H ₂ O 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. Before 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% H₂O.

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.

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REFERENCES

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

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

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