Brilliant Blue FCF

Cat. No.: HY-D0915

CAS No.: 3844-45-9

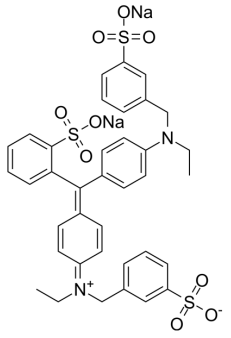
Molecular Formula: $C_{37}H_{34}N_2Na_2O_9S_3$

Molecular Weight: 792.85

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

H_2O : 33.33 mg/mL (42.04 mM; ultrasonic and adjust pH to 11 with NaOH)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2613 mL	6.3064 mL	12.6127 mL
	5 mM	0.2523 mL	1.2613 mL	2.5225 mL
	10 mM	0.1261 mL	0.6306 mL	1.2613 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
Solubility: 25 mg/mL (31.53 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Brilliant Blue FCF is an aromatic hydrocarbon, a synthetic dye produced from petroleum and used as a colorant for food and other substances. The solution has a maximum absorption at 628 nm.

In Vitro

1. Prepare the reserved liquid:
0.1% Brilliant Blue FCF stock solution was prepared in 85% lactic acid.
0.22μM filter membrane filtration.
2. Dye
The fungal and bacterial cell suspensions were adjusted to approximately 10^5 and 10^6 CFU/mL, respectively.
Bacterial or fungal suspensions of 600 μl were suspended with 100 μl dye solution, respectively.
The dye was applied to the fungal sample for 5 min.
The maximum absorption peak was observed at 628 nM by fluorescence microscopy.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Oral Sci. 2023 Jan 16;15(1):7.
- Soil Research. 56(6) 588-60.

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REFERENCES

[1]. Chau HW, et al An innovative brilliant blue FCF method for fluorescent staining of fungi and bacteria. Biotech Histochem. 2011 Aug;86(4):280-7.

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