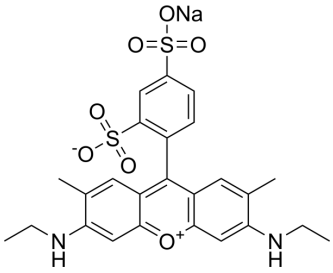
Sulforhodamine G

Cat. No.:	HY-D1674
CAS No.:	5873-16-5
Molecular Formula:	$C_{25}H_{25}N_2Na_2O_7S_2^+$
Molecular Weight:	575.58
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sulforhodamine G is a fluorescent stain with broad dynamic ranges. Sulforhodamine G can be used for the research of protein stains[1].
In Vitro	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Labeling of fluorescent internal protein: A. Prepared of protein samples: 1. Protein samples to be analyzed are spiked with 0.1% of the total protein load of ALIS647 (ALIS internal standard) prior. 2. Protein sample is separated with 2-DE in the dark. B. Purify Sulforhodamine G: 1. Sulforhodamine G (60% purity, 10 mg) dissolved in 100 mL of 1% v/v acetic acid to purify by RP chromatography. 2. Collect the pool with an absorbance maximum at 528 nm, lyophilized to dryness and stored as a dry powder at 47□. C. Stainning: 1. staining was performed in polypropylene staining dishes wrapped in aluminum foil to prevent photobleaching of the stains. 2. Sulforhodamine G staining is performed overnight in 35% methanol with a four-fold molar excess of dye: protein based on an average protein molecular weight of 50 kDa. 3. Following 4×15 min washes in 35% methanol and 2×15 min equilibrations in water. 4. Total protein and ALIS are visualized with a laser scanner using different channels. 5. Protein spots visualized using total protein stain (λex=532 nm) and ALIS (λex=633 nm) are quantified separately using 2-DE software, and statistical analysis. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Asa M Wheelock, et al. Use of a fluorescent internal protein standard to achieve quantitative two-dimensional gel electrophoresis. Proteomics. 2006 Mar;6(5):1385-98.

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

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