# Sulforhodamine G

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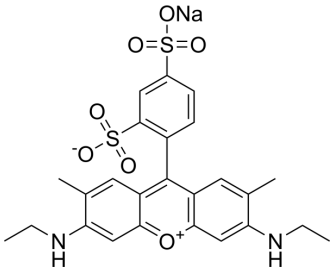
| **Cat. No.:** | HY-D1674 |
| **CAS No.:** | 5873-16-5 |
| **Molecular Formula:** | $C_{25}H_{25}N_2Na_2O_7S_2^+$ |
| **Molecular Weight:** | 575.58 |
| **Target:** | Fluorescent Dye |
| **Pathway:** | Others |
| **Storage:** | Please store the product under the recommended conditions in the Certificate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



## BIOLOGICAL ACTIVITY

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| **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).<br>Labeling of fluorescent internal protein:<br>A. Prepared of protein samples:<br>1. Protein samples to be analyzed are spiked with 0.1% of the total protein load of ALIS647 (ALIS internal standard) prior.<br>2. Protein sample is separated with 2-DE in the dark.<br>B. Purify Sulforhodamine G:<br>1. Sulforhodamine G (60% purity, 10 mg) dissolved in 100 mL of 1% v/v acetic acid to purify by RP chromatography.<br>2. Collect the pool with an absorbance maximum at 528 nm, lyophilized to dryness and stored as a dry powder at 47□.<br>C. Stainning:<br>1. staining was performed in polypropylene staining dishes wrapped in aluminum foil to prevent photobleaching of the stains.<br>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.<br>3. Following 4×15 min washes in 35% methanol and 2×15 min equilibrations in water.<br>4. Total protein and ALIS are visualized with a laser scanner using different channels.<br>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.<br>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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