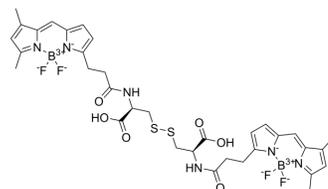


BODIPY FL L-Cystine

| | |
|---------------------------|--|
| Cat. No.: | HY-D1605 |
| CAS No.: | 1180490-57-6 |
| Molecular Formula: | C ₃₄ H ₃₈ B ₂ F ₄ N ₆ O ₆ S ₂ |
| Molecular Weight: | 788.45 |
| 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 (63.42 mM; Need ultrasonic) | | | | | |
| | Preparing Stock Solutions | Solvent \ Concentration | Mass | 1 mg | 5 mg | 10 mg |
| | | 1 mM | | 1.2683 mL | 6.3416 mL | 12.6831 mL |
| | | 5 mM | | 0.2537 mL | 1.2683 mL | 2.5366 mL |
| | | 10 mM | | 0.1268 mL | 0.6342 mL | 1.2683 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: ≥ 1.67 mg/mL (2.12 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | BODIPY FL L-Cystine is a thiol-reactive, green-fluorescent dye. BODIPY FL L-Cystine can be the labeling of membrane proteins, proteins with hydrophobic binding sites, or hydrophobic ligands. (λ_{ex} =504 nm, λ_{em} =511 nm) ^{[1][2]} . |
|--------------------|--|

REFERENCES

- [1]. Hofmann L, et, al. An effective thiol-reactive probe for differential scanning fluorimetry with a standard real-time polymerase chain reaction device. *Anal Biochem.* 2016 Apr 15;499:63-65.
- [2]. Kumar D, et, al. Glutathione-mediated release of Bodipy® from PEG cofunctionalized gold nanoparticles. *Int J Nanomedicine.* 2012;7:4007-22.

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

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