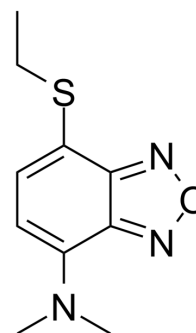


EtS-DMAB

| | |
|--------------------|--|
| Cat. No.: | HY-D1265 |
| CAS No.: | 2929446-76-2 |
| Molecular Formula: | C ₁₀ H ₁₃ N ₃ OS |
| Molecular Weight: | 223.29 |
| Target: | Fluorescent Dye |
| Pathway: | Others |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | | | |
|---|---|--------------------------|------|-------|-----------|------------|------------|
| In Vitro | DMSO : 50 mg/mL (223.92 mM; Need ultrasonic) | | | | | | |
| | Preparing Stock Solutions | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg | |
| | | | | 1 mM | 4.4785 mL | 22.3924 mL | 44.7848 mL |
| | | | | 5 mM | 0.8957 mL | 4.4785 mL | 8.9570 mL |
| | | | | 10 mM | 0.4478 mL | 2.2392 mL | 4.4785 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: ≥ 2.5 mg/mL (11.20 mM); Clear solution | | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.20 mM); Clear solution | | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|--|
| Description | EtS-DMAB (HClO-green) is a fluorescent probe, which can selectively detect hypochlorous acid (HOCl) (λ_{ex} =440 nm, λ_{em} =610 nm). EtS-DMAB is applied to image exogenous and endogenous HOCl in live cells ^[1] . |
| In Vitro | EtS-DMAB can selectively detect hypochlorous acid (HOCl) over other reactive oxygen species in aqueous solution with a large stokes shift ($\Delta\lambda$ 170 nm). It turns out that oxidation of the thioether to the corresponding sulfoxide accounts for the turn-on fluorescence ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

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

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