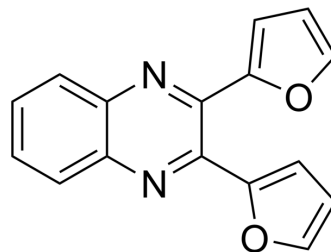


2,3-Di(furan-2-yl)quinoxaline

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-153349 | | |
| CAS No.: | 57490-73-0 | | |
| Molecular Formula: | C ₁₆ H ₁₀ N ₂ O ₂ | | |
| Molecular Weight: | 262.26 | | |
| Target: | Fluorescent Dye | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | | |
|---|--|--------------------------|--------------|------------|------------|
| In Vitro | DMSO : 100 mg/mL (381.30 mM; ultrasonic and warming and heat to 60°C) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 3.8130 mL | 19.0650 mL | 38.1301 mL |
| | | 5 mM | 0.7626 mL | 3.8130 mL | 7.6260 mL |
| 10 mM | | 0.3813 mL | 1.9065 mL | 3.8130 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 (9.53 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | 2,3-Di(furan-2-yl)quinoxaline (Compound 5) is a quinoxaline exhibiting blue fluorescence. 2,3-Di(furan-2-yl)quinoxaline is cell permeable and sufficiently bright at a micromolar concentration (1.5 μM) ^[1] . |
|--------------------|---|

REFERENCES

[1]. Amaya-García F, et al. Green Hydrothermal Synthesis of Fluorescent 2,3-Diarylquinoxalines and Large-Scale Computational Comparison to Existing Alternatives. ChemSusChem. 2021 Apr 22;14(8):1853-1863.

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

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