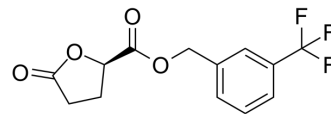


TFMB-(R)-2-HG

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-129079 | | |
| CAS No.: | 1445700-01-5 | | |
| Molecular Formula: | C ₁₃ H ₁₁ F ₃ O ₄ | | |
| Molecular Weight: | 288 | | |
| Target: | Others | | |
| Pathway: | Others | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (868.06 mM)
 * "≥" means soluble, but saturation unknown.

| Concentration | Solvent | Mass | | |
|---------------------------|---------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 3.4722 mL | 17.3611 mL | 34.7222 mL |
| | 5 mM | 0.6944 mL | 3.4722 mL | 6.9444 mL |
| | 10 mM | 0.3472 mL | 1.7361 mL | 3.4722 mL |

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (7.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.08 mg/mL (7.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (7.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TFMB-(R)-2-HG, a cell membrane-permeable version of (R)-2-HG, is a carcinogenic factor in Acute myeloid leukemia (AML). TFMB-(R)-2-HG impairs SCF ER-Hoxb8 cells differentiation in response to estrogen withdrawal^[1].

IC₅₀ & Target

Carcinogenic factor^[1]

REFERENCES

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

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