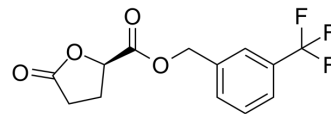


## TFMB-(R)-2-HG

Cat. No.:	HY-129079		
CAS No.:	1445700-01-5		
Molecular Formula:	C <sub>13</sub> H <sub>11</sub> F <sub>3</sub> O <sub>4</sub>		
Molecular Weight:	288.22		
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 (867.39 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.4696 mL	17.3479 mL	34.6957 mL
	5 mM	0.6939 mL	3.4696 mL	6.9391 mL
	10 mM	0.3470 mL	1.7348 mL	3.4696 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<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Carcinogenic factor<sup>[1]</sup>

### REFERENCES

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

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