# Fmoc-leucine

**Cat. No.:** HY-101064

**CAS No.:** 35661-60-0

**Molecular Formula:** $C_{21}H_{23}NO_4$

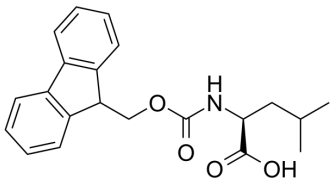
**Molecular Weight:** 353.41

**Target:** PPAR

**Pathway:** Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor

**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 : 50 mg/mL (141.48 mM; Need ultrasonic)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 2.8296 mL | 14.1479 mL | 28.2957 mL |
| 5 mM | 0.5659 mL | 2.8296 mL | 5.6591 mL |
| 10 mM | 0.2830 mL | 1.4148 mL | 2.8296 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 (7.07 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Fmoc-leucine is a selective PPARγ modulator. Fmoc-leucine activates PPARγ with a lower potency but a similar maximal efficacy than rosiglitazone. Fmoc-leucine improves insulin sensitivity in normal, diet-induced glucose-intolerant, and in diabetic db/db mice. Fmoc-leucine has a lower adipogenic activity[1].

**$IC_{50}$ & Target**

PPARγ

## REFERENCES

[1]. Rocchi S, et al. A unique PPARgamma ligand with potent insulin-sensitizing yet weak adipogenic activity. Mol Cell. 2001 Oct;8(4):737-47.



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