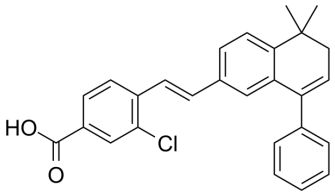
BMS641

Cat. No.:	HY-119518
CAS No.:	369364-50-1
Molecular Formula:	$C_{27}H_{23}ClO_2$
Molecular Weight:	414.92
Target:	RAR/RXR
Pathway:	Metabolic Enzyme/Protease
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 : 8.33 mg/mL (20.08 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4101 mL	12.0505 mL	24.1010 mL
	5 mM	0.4820 mL	2.4101 mL	4.8202 mL
	10 mM	0.2410 mL	1.2051 mL	2.4101 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: ≥ 0.83 mg/mL (2.00 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.83 mg/mL (2.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BMS641 (BMS-209641) is a selective RARβ agonist. BMS641 has a higher affinity for RARβ (K_d, 2.5 nM) that is 100 times higher than that for RARα (K_d, 225 nM) or RARγ (K_d, 223 nM)[1].

REFERENCES

[1]. Germain P, et al. Rational design of RAR-selective ligands revealed by RARbeta crystal stucture. EMBO Rep. 2004;5(9):877-882.

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

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