

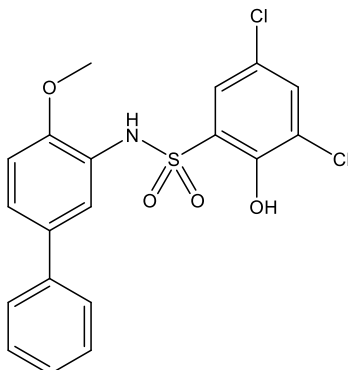
Catalog # 10-1414

BMS-303141

CAS# 943962-47-8

3,5-Dichloro-2-hydroxy-N-(4-methoxy[1,1'-biphenyl]-3-yl)-benzenesulfonamide

Lot # L101106



Potent and selective ATP citrate lyase (ACL) inhibitor, $IC_{50}=0.13 \mu\text{M}$. Inhibits lipid biosynthesis, $IC_{50}=8 \mu\text{M}$ in HepG2 cells.^{1,2} Reduces weight gain, lowers plasma cholesterol, triglycerides and glucose in high-fat-fed mice.² A novel tool compound for exploring the potential of ACL inhibition as a target for metabolic disorders such as obesity and dyslipidemia.² Impairs proliferation or induces death in androgen-depleted castration resistant prostate cancer cells.³ Reduces cell cycle progression in iBN cells.⁴

- 1) Li *et al.* (2007), *2-hydroxy-N-arylbenzenesulfonamides as ATP-citrate lyase inhibitors*; *Bioorg. Med. Chem.*, **17** 3208
- 2) Ma *et al.* (2009), *A novel direct homogeneous assay for ATP citrate lyase*; *J. Lipid Res.*, **50** 2131
- 3) Shah *et al.* (2016), *Targeting ACLY sensitizes castration-resistant prostate cancer cells to AR antagonism by impinging on an ACLY-AMPK-AR feedback mechanism*; *Oncotarget*, **7** 43713
- 4) Rhee and Dekoter (2017), *Regulation of Lipid Metabolism and Cell Cycle Progression by PU.1 in Myeloid Progenitor Cells*; *Blood*, **130** 2433

PHYSICAL DATA

Molecular Weight:	424.30
Molecular Formula:	C ₁₉ H ₁₅ Cl ₂ NO ₄ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 20 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.