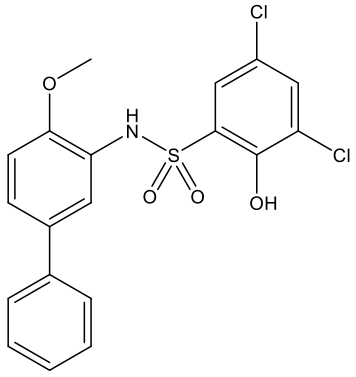
Catalog # 10-1414

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 μM. Inhibits lipid biosynthesis, IC_{50}=8 μM 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:	$C_{19}H_{15}Cl_2NO_4S$
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.

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