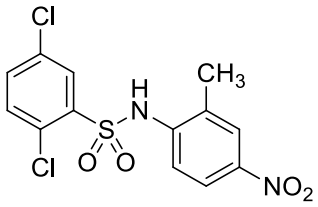
Catalog # 10-1328

FH-535

CAS# 108409-83-2

2,5-Dichloro-N-(2-methyl-4-nitrophenyl)benzenesulfonamide

Lot # X105930



Suppresses Wnt/β-catenin signaling. It antagonizes PPARγ and PPARδ ligand-dependent activation which is mediated by inhibition of recruitment of the coactivators β-catenin and GRIP1 but not the corepressors NCoR and SMRT[1]. Inhibits the migration and growth of breast cancer cell lines[2] as well as colon, lung and liver cell lines[1]. Useful tool for probing the involvement of Wnt signaling pathway[3,4].

1) Handeli *et al*. (2008), *A small-molecule inhibitor of Tcf/beta-catenin signaling down-regulates PPARgamma and PPARdelta activities*; Mol. Cancer Ther., **7** 521

2) Iida *et al*. (2012), *FH535 inhibited migration and growth of breast cancer cells*; PLoS One, **7** e44418

3) Frewer *et al*. (2013), *A role for WISP2 in colorectal cancer cell invasion and motility*; Cancer Genomics Proteomics, **10** 187

4) Polk *et al*. (2012), *FH535 potentiation of cigarette smoke condensate cytotoxicity is associated with changes in β-catenin and EGR-1 signaling*; Int. J. Toxicol., **31** 380

5) Morita and Hayashi (2018) *Tumor Progression is Mediated by Thymosin-β4 through a TGFβ/MRTF Signaling Axis;* Mol. Cancer Res. **16(5)** 880 [Citation]

PHYSICAL DATA

Molecular Weight:	361.21
Molecular Formula:	$C_{13}H_{10}Cl_2N_2O_4S$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	Tan crystalline solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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