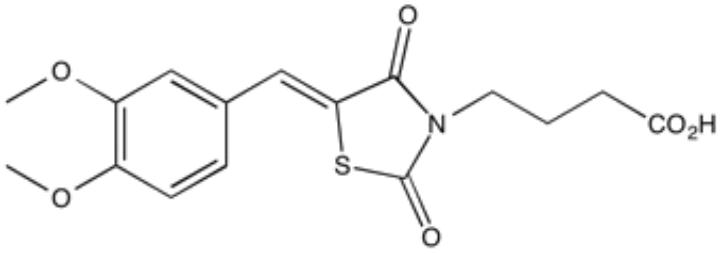
Catalog # 10-1371

iCRT5

CAS# 18623-44-4

4-[5-(3,4-Dimethoxy-benzylidene)-4-oxo-2-thioxo-thiazolidin-3-yl]-butyric acid

Lot # X104619



A selective CRT (β-catenin-responsive transcription) inhibitor.[1] IC_{50}=18 nM for Wnt responsive STF16 luciferase. Acts via interfering with the β-catenin, TCF4 interaction.[1] Displays poor inhibition of cell proliferation in triple-negative breast cancer cells.[2] Increases the surface expression of MHCII, CD80 and CD86 on unstimulated dendritic cells (DCs) with no detrimental effects on immune-phenotype of stimulated DCs.[3] Modulators of Wnt signaling show great promise in animal models of several cancers.[4] Cell permeable.

1) Gonsalves *et al*. (2011), *An RNAi-based chemical genetic screen identifies three small-molecule inhibitors of the Wnt/wingless signaling pathway*; Proc. Natl. Acad. Sci. USA, **108** 5954

2) Bilir *et al*. (2013), *Wnt signaling blockage inhibits cell proliferation and migration, and induces apoptosis in triple-negative breast cancer cells*; J. Transl. Med., **11** 280

3) Kafer *et al*. (2016), *Inhibitors of β-catenin affect the immune-phenotype and functions of dendritic cells in an inhibitor-specific manner;* Immunopharmacol., **32** 118

4) Anastas *et al*. (2013), *WNT signaling pathways as therapeutic targets in cancer*; Nat. Rev. Cancer, **13** 11

PHYSICAL DATA

Molecular Weight:	367.44
Molecular Formula:	$C_{16}H_{17}NO_5S_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 30 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 2 months.

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