Product Data Sheet

Product Name: GF 15
Cat. No.: GC33334

Chemical Properties

Cas. No.	888042-13-5		
SMILES	O=C1[C@]2(C(OCC3=CC=CC=C3)=CC(C[C@H]2C)=O)OC4=C(Cl)C(OC)=CC(OC)=C14		
Formula	$C_{23}H_{21}ClO_6$	M.Wt	428.86
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	GF 15		

Protocol

Cell experiment:	Hela cells are treated with GF 15 (0, 0.25, 0.5, 0.75, 1, 1.25 μM) for 24 and/or 48 hours. Cell viability is examined using the MTT assay[1].
Animal experiment:	Mice[1]Beige-nude Xid mice are inoculated s.c. in the right flank with 3×106 OPM2 or HT29 cells. When a tumor is measurable, mice are assigned to a GF 15 treatment group (20, 100 mg/kg) or the control group for 0-20 days. Tumor burden is measured every alternating day using an electronic caliper.

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References:

[1]. Raab MS, et al. GF-15, a novel inhibitor of centrosomal clustering, suppresses tumor cell growth in vitro and in vivo. Cancer Res. 2012 Oct 15;72(20):5374-85.

Background

GF 15 is a potent inhibitor of centrosomal clustering in tumor cells.

GF 15 leads to multipolar mitosis induction with an EC50 of 900 nM. GF 15 exhibits potent cytotoxicity in a concentration-dependent manner against a broad spectrum of tumor cell types including colon, cervix, glioblastoma, pancreas, leukemia, and myeloma-derived cell lines with IC50s of 1-5 μM[1].

Treatment of mouse xenograft models of human colon cancer and multiple myeloma with GF 15 results in tumor growth inhibition and significantly prolonged survival[1].

[1]. Raab MS, et al. GF-15, a novel inhibitor of centrosomal clustering, suppresses tumor cell growth in vitro and in vivo. Cancer Res. 2012 Oct 15;72(20):5374-85.

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