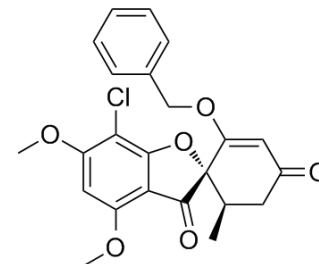


GF 15

Cat. No.:	HY-12797
CAS No.:	888042-13-5
Molecular Formula:	C ₂₃ H ₂₁ ClO ₆
Molecular Weight:	428.86
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GF 15 is a potent inhibitor of centrosomal clustering in tumor cells.
IC₅₀ & Target	Centrosomal clustering ^[1]
In Vitro	GF 15 leads to multipolar mitosis induction with an EC ₅₀ 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 IC ₅₀ s of 1-5 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay ^[1]	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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Administration ^[1]	Mice ^[1] Beige-nude Xid mice are inoculated s.c. in the right flank with 3×10 ⁶ 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. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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