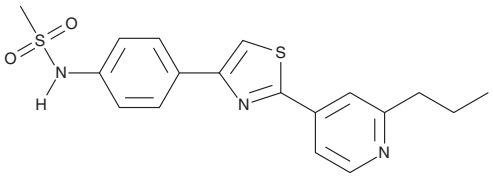
PRODUCT INFORMATION

FGH10019

Item No. 46298

CAS Registry No.:	1046045-61-7
Formal Name:	N-[4-[2-(2-propyl-4-pyridinyl)-4-thiazolyl]phenyl]-methanesulfonamide
MF:	$C_{18}H_{19}N_3O_2S_2$
FW:	373.5
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

FGH10019 is supplied as a solid. A stock solution may be made by dissolving the FGH10019 in the solvent of choice, which should be purged with an inert gas. FGH10019 is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

FGH10019 is an inhibitor of sterol regulatory element binding protein (SREBP) activation and a derivative of fatostatin (Item No. 13562).[1] It inhibits SREBP-mediated transcriptional activity in a reporter assay using CHO-K1 cells (IC_{50} = 0.7 µM). FGH10019 increases plasma membrane fluidity and permeability in C4-2 and PC3 prostate cancer cells and has additive cytotoxic effects in the same cells when used in combination with docetaxel (Item No. 11637).[2] When administered with docetaxel, FGH10019 (20 mg/kg, p.o.) induces intratumoral apoptosis and reduces tumor volume in a PC3 mouse xenograft model in an additive manner. FGH10019 reduces body weight, serum levels of total and LDL cholesterol, hepatic levels of triglycerides, and blood glucose levels in *ob/ob* mice.[1]

References

1. Kamisuki, S., Shirakawa, T., Kugimiya, A., *et al.* Synthesis and evaluation of diaryl thiazole derivatives that inhibit activation of sterol regulatory element-binding proteins. *J. Med. Chem.* **54(13)**, 4923-4927 (2011).
2. Chen, J., Wang, M.E., Bawcom, A.R., *et al.* Targeting SREBP-dependent lipogenesis potentiates the anti-tumor activity of docetaxel by increasing membrane permeability and intracellular drug accumulation. *Oncogene* **44(45)**, 4405-4412 (2025).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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