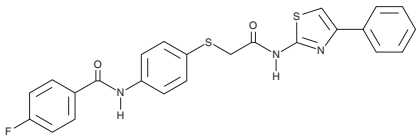
PRODUCT INFORMATION

F7H

Item No. 46742

CAS Registry No.: 897109-93-2
Formal Name: 4-fluoro-N-[4-[[2-oxo-2-[(4-phenyl-2-thiazolyl) amino]ethyl]thio]phenyl]-benzamide
MF: $C_{24}H_{18}FN_3O_2S_2$
FW: 463.5
Purity: ≥98%
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

F7H is supplied as a solid. A stock solution may be made by dissolving the F7H in the solvent of choice, which should be purged with an inert gas. F7H is sparingly soluble (1-10 mg/ml) in DMSO.

Description

F7H is an antagonist of frizzled family G protein-coupled receptor 7 (FZD_7).[1] It selectively binds to the transmembrane domain of FZD_7 (K_D = 0.16 µM) over the Smoothened receptor (Smo) at 1 µM and inhibits Wnt3a-induced β-catenin stabilization in a reporter assay using HEK293 cells (IC_{50} = 1.25 µM). F7H (20 mg/kg) decreases lesion number, volume, and weight in a mouse model of endometriosis when administered alone or in combination with the ferroptosis inducer erastin (Item No. 17754).[2]

References

1. Li, C., Wu, Y., Wang, W., *et al.* Structure-based ligand discovery targeting the transmembrane domain of frizzled receptor FZD7. *J. Med. Chem.* **66(17)**, 11855-11868 (2023).
2. Huang, J., Shi, W., Liao, Z., *et al.* N6-methyladenosine regulated FZD7 inhibits ferroptosis in endometriosis via β-catenin/SLC7A11 pathway. *Free Radic. Biol. Med.* **243**, 54-66 (2026).

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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