

Product Data Sheet

Product Name: FDW028
Cat. No.: GC91612

Chemical Properties

Cas. No. 2768426-49-7

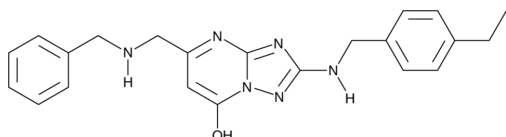
Formula $C_{22}H_{24}N_6O$ M.Wt 388.5

Solubility DMSO: Soluble: ≥ 10 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

FDW028 is an inhibitor of fucosyltransferase 8 (FUC8).^[1] It binds to FUC8 ($K_d = 5.486 \mu\text{M}$) and inhibits core fucosylation in HCT-8 and SW480 colorectal cancer (CRC) cells. FDW028 ($50 \mu\text{M}$) induces degradation of B7-H3, also known as CD276, via chaperone-mediated autophagy (CMA) in the same cells. *In vivo*, FDW028 (10 and 20 mg/kg) reduces tumor volume and increases survival in an SW480 mouse xenograft model.

References:

[1]. Wang, M., Zhang, Z., Chen, M., et al. FDW028, a novel FUT8 inhibitor, impels lysosomal proteolysis of B7-H3 via chaperone-mediated autophagy pathway and exhibits potent efficacy against metastatic colorectal cancer. *Cell Death Dis.* 14(8)495(2023).

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

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