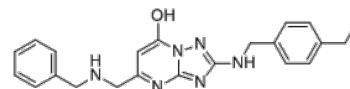


Product Name : FDW028
Cat. No. : PC-21002
CAS No. : 2768426-49-7
Molecular Formula : C₂₂H₂₄N₆O
Molecular Weight : 388.48
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 2768426-49-7

Biological Activity

FDW028 is a potent and highly selective small-molecule inhibitor of **fucosyltransferase 8 (FUT8)** with binding KD value of 5.486 uM, displays no affinity against other FUTs, shows potent anti-CRC activities.

FDW028 exerts potent anti-tumor activities against CRC with IC₅₀ of 5.95 μM and 23.78 μM in SW480 and HCT-8 cells, respectively, significantly represses the migration of SW480 and HCT-8 cells.

FDW028 promotes defucosylation and consequent CMA lysosomal degradation of B7-H3 through CMA pathway.

FDW028 apparently attenuates the expression of both PD-L1 and PD-L2 in CRC cells.

FDW028 attenuates membrane B7-H3 through driving the binding of HSC70 to B7-H3 and consequent autophagolysosomal degradation of B7-H3.

FDW028 (20 mg/kg once the other day, i.v.) prolongs the survival of mice with CRC pulmonary metastases (CRPM).

References

Wang M, et al. *Cell Death Dis.* 2023 Aug 3;14(8):495.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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