

Foxy-5 acetate

Chemical Properties

CAS No. :

Formula: C28H46N6O14S2

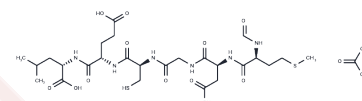
Molecular Weight: 754.83

Storage:

Store at low temperature, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Foxy-5 acetate is an agonist of Wnt 5A which is a non-canonical member of the Wnt family. Foxy-5 acetate impairs the migration and invasion of epithelial cancer cells triggers cytosolic free calcium signaling without affecting β -catenin activation. |
| Targets(IC50) | Wnt/beta-catenin |
| In vivo | In an orthotopic mouse model, Foxy-5 acetate effectively reduces the metastatic spread of Wnt 5A-low prostate cancer cells[2]. In a xenograft mouse model of human colonic cancer, Foxy-5 acetate reduces the number of colonic cancer stem cells[3]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 1.3248 mL | 6.624 mL | 13.248 mL |
| 5 mM | 0.265 mL | 1.3248 mL | 2.6496 mL |
| 10 mM | 0.1325 mL | 0.6624 mL | 1.3248 mL |
| 50 mM | 0.0265 mL | 0.1325 mL | 0.265 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Kelsey R. Prostate cancer: Foxy-5 in prostate cancer model. *Nat Rev Urol.* 2017 Nov;14(11):638.
- Säfhholm A, et al. The Wnt-5a-derived hexapeptide Foxy-5 inhibits breast cancer metastasis in vivo by targeting cell motility. *Clin Cancer Res.* 2008 Oct 15;14(20):6556-63.
- Osman J, et al. The WNT5A Agonist Foxy5 Reduces the Number of Colonic Cancer Stem Cells in a Xenograft Mouse Model of Human Colonic Cancer. *Anticancer Res.* 2019 Apr;39(4):1719-1728.
- Canesin G, et al. Treatment with the WNT5A-mimicking peptide Foxy-5 effectively reduces the metastatic spread of WNT5A-low prostate cancer cells in an orthotopic mouse model. *PLoS One.* 2017 Sep 8;12(9):e0184418.

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