

Product Data Sheet

Product Name: ENPP1 Inhibitor 4e

Cat. No.: GC52334

Chemical Properties

Cas. No.

SMILES FC(C=C1)=CC2=C1C(NC(CSC3=NC4=NC(OC)=CC=C4N3)=N2)=O

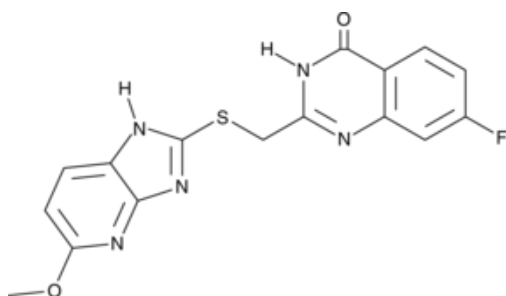
Formula C₁₆H₁₂FN₅O₂S M.Wt 357.4

Solubility DMF: 20 mg/ml, DMSO: 1 mg/ml, Ethanol: Slightly soluble, PBS (pH 7.2): 0.25 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

ENPP1 inhibitor 4e is an inhibitor of ectonucleotide pyrophosphatase/phosphodiesterase family member 1 (ENPP1; IC₅₀ = 0.188 μM), an enzyme that degrades the stimulator of interferon genes (STING) activator 2'3'-cGAMP.¹ It inhibits ENPP1 in MDA-MB-231 cells, which highly express ENPP1 (IC₅₀ = 0.732 μM). ENPP1 inhibitor 4e is selectively cytotoxic to 4T1 murine metastatic breast cancer cells (IC₅₀ = 2.99 μM) over non-cancerous L-02 and 293T cells at 50 μM. It increases serum levels of IFN-β in mice when administered at a dose of 0.5 mg/kg in combination with cGAMP when compared to mice administered only cGAMP or mice not receiving either compound, indicating that ENPP1 inhibitor 4e reduces the degradation of cGAMP.

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

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1. Wang, X., Lu, X., Yan, D., et al. Development of novel ecto-nucleotide pyrophosphatase/phosphodiesterase 1 (ENPP1) inhibitors for tumor immunotherapy. *Int. J. Mol. Sci.* 23(13)7104(2022)

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