

Product Data Sheet

Product Name: MR24 TFA

Cat. No.: GC81337

Chemical Properties

Cas. No.

Formula $C_{28}H_{30}ClF_3N_6O_5$

M.Wt 623.02

Solubility

Storage Store at 4°C, away from moisture and light

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.

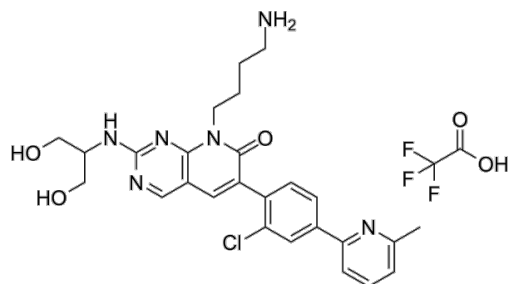
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

MR24 TFA, a G-5555 derivative, is a mammalian STE20-like (MST) kinase inhibitor. MR24 TFA shows selectively to MST3/4 over MST1/2, with EC 50 values of 57 and 583 nM, respectively. MR24 TFA induces G1 phase cell cycle arrest. MR24 TFA can be used for cancer research, such as breast, liver and lung cancers [1].

In Vitro, MR24 (compound 24) (1-10 μ M, 6-72 h) TFA shows no significant effect on cell healthy nuclei in HCT116 cells, and only results in a slight reduction in cell viability by about 30% at a concentration of 10 μ M^[1]. MR24 (1-10 μ M, 24-72 h) TFA induces G1 phase cell cycle arrest in HCT116 cells^[1].

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[1]. Rak M, et al. Development of Selective Pyrido[2,3-d]pyrimidin-7(8H)-one-Based Mammalian STE20-Like (MST3/4) Kinase Inhibitors. J Med Chem. 2024 Mar 14;67(5):3813-3842.

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