

Product Data Sheet

Product Name: W1131 TFA

Cat. No.: GC73420

Chemical Properties

Cas. No.

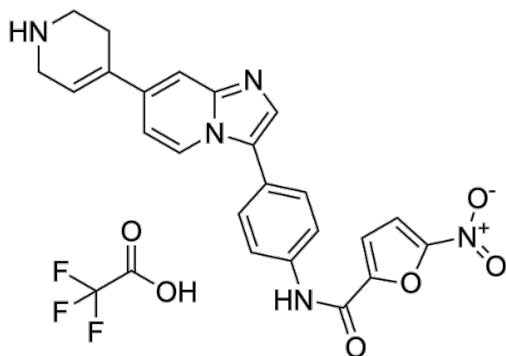
Formula $C_{25}H_{20}F_3N_5O_6$ M.Wt 543.45

Solubility DMSO : 100 mg/mL (184.01 mM; Storage -20°C
Need ultrasonic)

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



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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Background

W1131 TFA is a potent STAT3 inhibitor that induces ferroptosis. W1131 inhibits cancer progression in subcutaneous xenograft, organoid, and PDX models of gastric cancer. W1131 effectively alleviates cancer cell chemoresistance to 5-FU. W1131 regulates the cell cycle, DNA damage response, and oxidative phosphorylation, including the IL6-JAK-STAT3 pathway and the ferroptosis pathway.

References:

[1]. Ouyang S, et al. Inhibition of STAT3-ferroptosis negative regulatory axis suppresses tumor growth and alleviates chemoresistance in gastric cancer. *Redox Biol.* 2022 Jun;52:102317.

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