

Product Data Sheet

Product Name: MST3-IN-1 TFA

Cat. No.: GC81335

Chemical Properties

Cas. No.

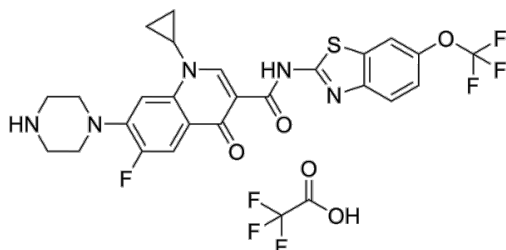
Formula $C_{27}H_{22}F_7N_5O_5S$ M.Wt 661.55

Solubility DMSO: 14.29 mg/mL (21.60 mM; Need ultrasonic) Storage Store at 4°C, away from moisture

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

MST3-IN-1 TFA (Compound LD-1) is a selective and orally active MST3 inhibitor, with an IC₅₀ of

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

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122.4 nM. MST3-IN-1 TFA shows antiproliferative activity against HepG2 cell. MST3-IN-1 TFA effectively induces Apoptosis in HepG2 cells, and halts the cell cycle at the G2/M transition. MST3-IN-1 TFA significantly suppressed tumor growth in HepG2 xenograft mice. MST3-IN-1 TFA can be used for the study of liver cancer [1].

References:

[1]. Li D, et al. Design and synthesis of Riluzole-Ciprofloxacin hybrids as selective MST3 inhibitors for cancer treatment. Eur J Med Chem. 2025 Jun 28;297:117923.

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