

Product Data Sheet

Product Name: ATH686
Cat. No.: GC62499

Chemical Properties

Cas. No. 853299-52-2

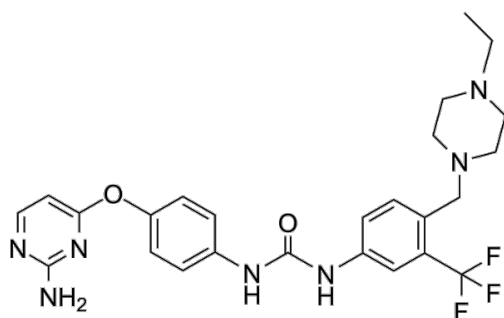
Formula $C_{25}H_{28}F_3N_7O_2$ M.Wt 515.53

Solubility DMSO : 250 mg/mL (484.94 mM; Need ultrasonic) Storage Store at -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

ATH686 is a potent, selective and ATP-competitive FLT3 inhibitor. ATH686 target mutant FLT3 protein kinase activity and inhibit the proliferation of cells harboring FLT3 mutants via induction of apoptosis and cell cycle inhibition. ATH686 has antileukemic effects[1].

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

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ATH686 (1-100 μ M; 3 days) potently inhibits cell proliferation (IC₅₀ around 0.001 μ M) via induction of apoptosis in FLT3-ITD-Ba/F3 cells and D835Y-Ba/F3 cells[1]. ATH686 (10 nM; for 15 minutes) inhibits autophosphorylation of mutant FLT3 in FLT3-ITD-Ba/F3 cells[1].

[1]. Ellen Weisberg, et al. Antileukemic Effects of Novel First- and Second-Generation FLT3 Inhibitors: Structure-Affinity Comparison. *Genes Cancer*. 2010 Oct;1(10):1021-32.

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