

Product Data Sheet

Product Name: IK-595
Cat. No.: GC79482

Chemical Properties

Cas. No. 3018909-73-1

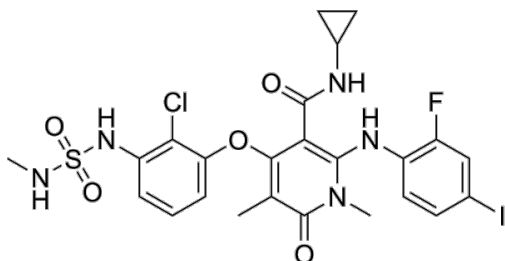
Formula $C_{24}H_{24}ClFIN_5O_5S$ M.Wt 675.9

Solubility DMSO: 100 mg/mL (147.95 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

IK-595 is a MEK1/MEK2 inhibitor with high affinity (7.39 nM). IK-595 blocks EGF-induced ERK1/2 phosphorylation in AsPC-1 cells with IC_{50} value of 0.1 nM. IK-595 has oral activity and blood-brain barrier penetration. IK-595 can be used for the research of Ras/MAPK pathway-altered cancers [1].

In Vivo, IK-595 (6 mg/kg; p.o.; QOD) exhibits antitumor efficacy in xenograft mice [1]. IK-595 (6 mg/kg; p.o.; single dose) exhibits superior brain pharmacodynamic activity in A549 intracranial and

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subcutaneous tumor-bearing mice^[1].

In Vitro, IK-595 (3 nM; 4 h) increases MEK-CRAF interaction in HCT-116 cells and promotes MEK interactions with BRAFV600E, class II, and class III mutants in HT-29, NCI-H1755, and NCI-H1666 cells ^[1]. IK-595 (25 nM; long-term monitoring) in combination with sotorasib (62.5 nM) maintains cell viability inhibition for over 30 days in NCI-H358 cells^[1]. IK-595 (3 nM; 120 h) combined with sotorasib (1000 nM) induces more apoptosis in NCI-H358 cells than other MEK inhibitor combinations. IK-595 (10 nM; 120 h) in combination with RMC-7977 (1 nM) increases apoptosis in NCI-H358 cells^[1]. IK-595 (3 nM; long-term monitoring) in combination with sotorasib (250 nM) blocks growth of sotorasib-resistant NCI-H358-R cells. IK-595 inhibits ERK1/2 phosphorylation in sotorasib-resistant NCI-H358-R cells^[1].

References:

[1]. Haines E, et al. The MEK-RAF molecular glue IK-595 has potent antitumor activity across RAS/MAPK pathway-altered cancers. Nat Cancer. 2026;7(1):116-130.

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