

Product Data Sheet

Product Name: ALK-IN-26

Cat. No.: GC73642

Chemical Properties

Cas. No. 2447607-85-2

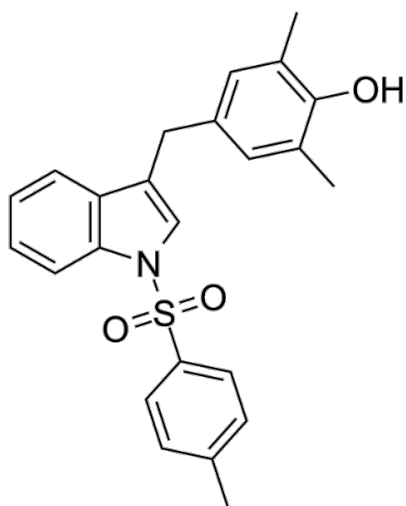
Formula $C_{24}H_{23}NO_3S$ M.Wt 405.51

Solubility DMSO : 125 mg/mL (308.25 mM; Storage 4°C, protect from light
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



Background

ALK-IN-26 is an ALK inhibitor with IC50 value of 7.0 μ M for ALK tyrosine kinase. ALK-IN-26 has good

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

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pharmacokinetic properties and blood-brain barrier (BBB) permeability. ALK-IN-26 can induce apoptosis, autophagy and necrosis. ALK-IN-26 can be used in glioblastoma studies.

ALK-IN-26 (0.5-2 μ M, 24 h) can inhibit the activity of ALK in GL216 cells[1]. ALK-IN-26 (0.5-2 μ M, 24 h) can reduce the expression of mTOR protein in GL216 cells [1]. ALK-IN-26 (0.5-2 μ M, 24 h) significantly decreases p-ERK1/2 protein level and enhances p-JNK protein level in GL261 and U87MG cells, while has little effect on p-AKT and p-STAT3 protein levels[1]. ALK-IN-26 (0.5 μ M-2.0 μ M, 24h) can induce autophagy in GL261 cells[1]. ALK-IN-26 (0.5 μ M-0.5 μ M, 24-72 h) increases the protein levels of cleaved-PARP (c-PARP) and cleaved-caspase-3 (c-caspase 3) in GL261 cells[1]. ALK-IN-26 (0.5 μ M-2 μ M, 24-72 h) induces apoptosis in GL261 cells[1].

ALK-IN-26 (5 mg/kg, i.v., single dose) has pharmacokinetic properties in male C57BL6/J mice[1]. ALK-IN-26 is (20 mg/kg, i.p., single dose) able to penetrate the blood-brain barrier in male C57BL6/J mice[1]. Pharmacokinetic parameters of C57BL6/J in male rats (n = 3) [1]

References:

[1]. Feng L, et al. Synthesis and Bioevaluation of 3-(Arylmethylene) indole Derivatives: Discovery of a Novel ALK Modulator with Antiglioblastoma Activities[J]. Journal of Medicinal Chemistry, 2023.

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