

Product Data Sheet

Product Name: OBI-3424

Cat. No.: GC62501

Chemical Properties

Cas. No. 2097713-68-1

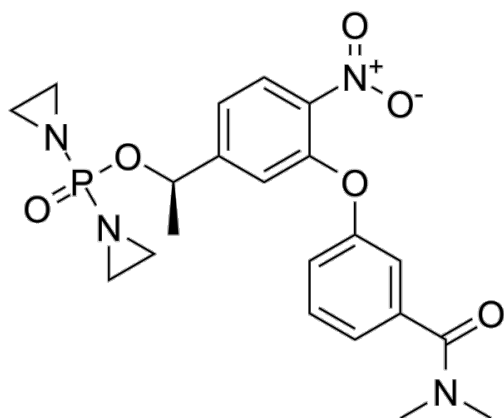
Formula $C_{21}H_{25}N_4O_6P$ M.Wt 460.42

Solubility DMSO : 50 mg/mL (108.60 mM; Need ultrasonic) Storage -20°C, protect from light

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

OBI-3424 (TH-3424) is a prodrug that is selectively converted by AKR1C3 (aldo-keto reductase 1C3)

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

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to a potent DNA-alkylating agent. OBI-3424 can be used for hepatocellular carcinoma, castrate-resistant prostate cancer, and acute lymphoblastic leukemia (ALL) research[1].

OBI-3424 exerts potent cytotoxicity against the H460 lung cancer cell line (IC₅₀ of 4.0 nM). OBI-3424 exhibits potent cytotoxicity, in particular against cell lines derived from T-ALL with high AKR1C3 expression, with IC₅₀ values in the low nM range[1]. OBI-3424 also exerts potent cell killing against ALL PDXs, and the median IC₅₀ values were 60.3 nM for B-ALL, 9.7 nM for T-ALL and 31.5 nM for ETP-ALL[1].

OBI-3424 (0.5-2.5 mg/kg; i.p.; once weekly; for 3 weeks) treatment induces regressions in PDXs mice and results in prolongation of mouse event-free survival[1].

[1]. Kathryn Evans, et al. OBI-3424, a Novel AKR1C3-Activated Prodrug, Exhibits Potent Efficacy against Preclinical Models of T-ALL. Clin Cancer Res. 2019 Jul 15;25(14):4493-4503.

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