

Product Data Sheet

Product Name: KA2507
Cat. No.: GC62430

Chemical Properties

Cas. No. 1636894-46-6

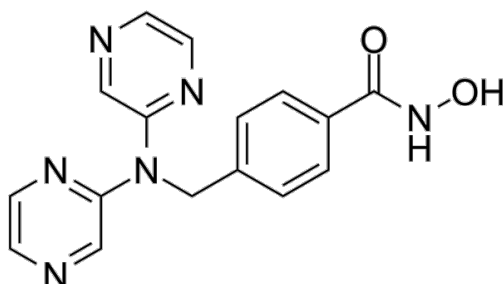
Formula $C_{16}H_{14}N_6O_2$ M.Wt 322.32

Solubility DMSO : 66.67 mg/mL (206.84 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

KA2507 is a potent and selective HDAC6 inhibitor, with an IC₅₀ of 2.5 nM. KA2507 shows antitumor activities and immune modulatory effects in preclinical models[1].

KA2507 did not inhibit the in vitro proliferation of mouse or human cancer cells at concentrations that

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

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are selective for HDAC6 inhibition[1].

KA2507 (100-200 mg/kg; p.o.; daily; for 20 days) inhibits tumor growth in the syngeneic B16-F10 mouse melanoma model[1]. KA2507 also demonstrates antitumor efficacy in CT26 and MC38 colorectal cancer models[1]. Analysis of tumor samples also indicates modulation of biomarkers of antitumor immunity at efficacious dosing, with KA2507 administration resulting in reduced STAT3 activation (as measured by phospho-STAT3, an important suppressor of the antitumor immune response), reduced PD-L1 expression, and increased expression of MHC class I[1]. KA2507 exhibits poor oral bioavailability (mice 15%) and C_{max} (mice 300 ng/mL) following oral administration (mice 200 mg/kg)[1].

[1]. Apostolia M Tsimberidou, et al. Preclinical Development and First-in-Human Study of KA2507, a Selective and Potent Inhibitor of Histone Deacetylase 6, for Patients with Refractory Solid Tumors. Clin Cancer Res. 2021 May 4.

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