
Product Data Sheet

Product Name: SBI-581
Cat. No.: GC64771

Chemical Properties

Cas. No.

Formula C₂₄H₂₁N₃O₂ M.Wt 383.44

Solubility 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

SBI-581 is an orally active and potent selective serine-threonine kinase TAO3 inhibitor, with an IC₅₀ of 42 nM. SBI-581 promotes TKS5 α accumulation at RAB11-positive vesicles. SBI-581 inhibits invadopodia formation. SBI-581 shows reasonable pharmacokinetics in mice using IP injection. SBI-581 shows antitumor activity[1].

SBI-581 shows moderate selectivity (> 5-10x) against the majority of a broad panel of kinases[1].

SBI-581 (10 mg/kg, IP, once) displays reasonable pharmacokinetics (t_{1/2}=1.5 hr; AUC= 1202 hr*ng/mL; C_{max}= ~2 μ M)[1].

[1]. Iizuka S, et al. Serine-Threonine Kinase TAO3-Mediated Trafficking of Endosomes Containing the Invadopodia Scaffold TKS5 α Promotes Cancer Invasion and Tumor Growth. Cancer Res. 2021 Mar 15;81(6):1472-1485.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA