
Product Data Sheet

Product Name: WNK1-IN-1

Cat. No.: GC70147

Chemical Properties

Cas. No. 324022-39-1

Formula $C_{13}H_{15}BrCl_2N_2O_4S$

M.Wt

446.14

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

IC₅₀: 1.6 μM (WNK1), 4.3 μM (OSR1 phosphorylation)^[1]

WNK1-IN-1 is a selective inhibitor of **WNK1** with an **IC₅₀** value of 1.6 μM. WNK1-IN-1 inhibits OSR1 phosphorylation with an **IC₅₀** value of 4.3 μM. WNK1-IN-1 can be used for the research of blood pressure regulation and cancer^[1].

WNK1-IN-1 (0-1000 μM; 30 min) shows high potency to WNK1 with an IC₅₀ value of 1.6 μM^[1].

WNK1-IN-1 (0.2-12.5 μM; 24 h) inhibits endogenous OSR1 phosphorylation with an IC₅₀ value of 4.3 μM in MDAMB231 breast-cancer cells^[1].

WNK1-IN-1 (0-100 nM) is 10-fold more potent to WNK1 than WNK3 in Kinase-Glo assay^[1].

[1]. Rodriguez M, et al. Synthesis and Structural Characterization of Novel Trihalo-sulfone Inhibitors of WNK1. ACS Med Chem Lett. 2022 Sep 23;13(10):1678-1684.

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