

Product Data Sheet

Product Name: SHY-855

Cat. No.: GC79242

Chemical Properties

Cas. No. 2446485-15-8

Formula $C_{26}H_{24}ClN_5O_2S$ M.Wt 506.02

Solubility DMSO: 33.33 mg/mL (65.87 mM; ultrasonic and warming and heat to 60°C) 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

SHY-855 is a pan RAS inhibitor. SHY-855 effectively prevents the binding of K-Ras proteins and other members of the Ras superfamily of small GTPases with IC_{50} values of 0.3-5 μ M. SHY-855 effectively inhibits the phosphorylation of MEK, ERK1/2, and AKT downstream of K-Ras. SHY-855 inhibits the formation of the Ras-GTP activity complex. SHY-855 can be used to the studies of pancreatic cancer and non-small cell lung cancer [1].

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

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In Vitro, SHY-855 competes with GTP binding to K-Ras WT, the G12D, G12C, and Q61H mutants, as well as Rac-1, Rho-A, Rab5, and Rab35 with IC₅₀s of 2.5, 2.5, 3, 5, 2.5, 2.5, 0.3 and 0.6 μM ^[1]. SHY-855 (72 h) exhibits potent antiproliferative effects in multiple tumor cell lines, including pancreatic cancer (PANC-1, MIA PaCa-2, BxPC3) and non-small cell lung cancer (NCI-H1975, A549, NCI-H1299), with IC₅₀ values ranging from 0.75-2.9 μM ^[1]. SHY-855 (0.3-10 μM , 6 h) significantly inhibits the phosphorylation of key signaling molecules induced by EGF in PANC-1, MIA PaCa-2 and NCI-H1975 cells^[1]. SHY-855 (1.25-10 μM , 6 h) inhibits Ras-GTP complex formation with an IC₅₀ of 1-3 μM in PANC-1, MIA PaCa-2 and NCI-H1975 cells^[1].

References:

[1]. Carta L, et al. Identification of Small-Molecule Inhibitors that Block the GTP-Binding Pocket of K-Ras and Other Members of the Ras Superfamily of Small GTPases. Mol Cancer Ther. 2025 Sep 12:OF1-OF10.

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