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 μM. 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].

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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 IC_{50} 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 IC_{50} 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.

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

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