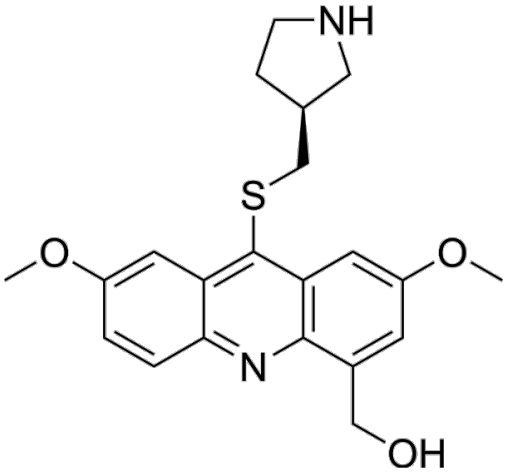
Product Data Sheet

Product Name: DYRK2-IN-2
Cat. No.: GC81307

Chemical Properties

Cas. No.	2416195-65-6		
Formula	$C_{21}H_{24}N_2O_3S$	M.Wt	384.49
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

DYRK2-IN-2 (Compound C17) is a selective inhibitor of DYRK2, with its IC_{50} value being 40.3 nM. The inhibitory activity of DYRK2-IN-2 on DYRK1A (IC_{50} = 1842 nM), DYRK1B (IC_{50} = 1335 nM), DYRK4 (IC_{50} = 1931 nM), DYRK3 (IC_{50} = 112 nM), and CLKs (IC_{50} = 540-6496 NM) is relatively low. DYRK2-IN-2 inhibits the phosphorylation of Tau protein at Thr212 and shows moderate cytotoxicity in HT22 cells. DYRK2-IN-2 can be used in cancer research [1].

References:

Caution: Product has not been fully validated for medical applications. For research use only.
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[1]. Lindberg MF, et al. Comparative Efficacy and Selectivity of Pharmacological Inhibitors of DYRK and CLK Protein Kinases. J Med Chem. 2023 Mar 23;66(6):4106-4130.

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