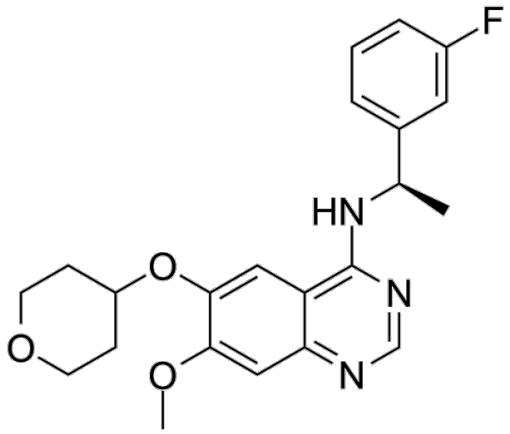
Product Data Sheet

Product Name: SOS1/EGFR-IN-1
Cat. No.: GC73811

Chemical Properties

Cas. No.	2956724-20-0		
Formula	$C_{22}H_{24}FN_3O_3$	M.Wt	397.44
Solubility	DMSO : 100 mg/mL (251.61 mM; ultrasonic and warming and heat to 60°C)	Storage	-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

SOS1/EGFR-IN-1 (compound SE-9) is a dual-target inhibitor for the prostate cancer. SOS1/EGFR-IN-1 inhibits effectively SOS1(IC_{50}=42.13±1.55 nM) and EGFR(IC_{50}=1.01±0.04 nM) by inhibiting their downstream effector molecules. SOS1/EGFR-IN-1 induces apoptosis and G1 phase cell cycle arrest, reducing angiogenesis and migration. SOS1/EGFR-IN-1 shows significant antitumor effects in prostate cancer cells PC-3 (IC_{50}=0.45±0.03 μM)[1].

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

[1]. Zheng L, et al. Discovery of a Potent Dual Son of Sevenless 1 (SOS1) and Epidermal Growth Factor Receptor (EGFR) Inhibitor for the Treatment of Prostate Cancer[J]. Journal of Medicinal Chemistry, 2024.

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