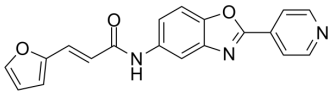
SW157765

Cat. No.:	HY-139047
CAS No.:	332063-87-3
Molecular Formula:	$C_{19}H_{13}N_3O_3$
Molecular Weight:	331.32
Target:	GLUT
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (75.46 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0182 mL	15.0911 mL	30.1823 mL
	5 mM	0.6036 mL	3.0182 mL	6.0365 mL
	10 mM	0.3018 mL	1.5091 mL	3.0182 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SW157765 is a selective non-canonical glucose transporter GLUT8 (SLC2A8) inhibitor. KRAS/KEAP1 double mutant NSCLC cells are selectively sensitive to the SW157765, due to the convergent consequences of dual KRAS and NRF2 modulation of metabolic and xenobiotic gene regulatory programs[1][2].

In Vitro

SW157765-sensitive NSCLC cell lines are also selectively sensitive to glucose deprivation and to GLUT8 depletion. SW157765 selectively inhibits fluorescent 2-deoxyglucose (2DG) uptake in SW157765-sensitive cells in a dose-dependent manner[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Pine SR, et al. Identifying therapeutic vulnerabilities in lung cancer: application of a chemistry-first approach. Transl Lung Cancer Res. 2018;7(Suppl 3):S265-S269.

[2]. McMillan EA, et al. Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. Cell. 2018;173(4):864-878.e29.

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

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