SET2

Cat. No.: HY-132222

CAS No.: 2313525-20-9

Molecular Formula: $C_{17}H_{21}F_3N_4O_2S$

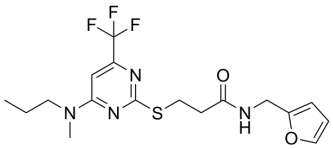
Molecular Weight: 402.43

Target: TRP Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (248.49 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4849 mL	12.4245 mL	24.8490 mL
	5 mM	0.4970 mL	2.4849 mL	4.9698 mL
	10 mM	0.2485 mL	1.2425 mL	2.4849 mL

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

BIOLOGICAL ACTIVITY

Description

SET2 is a selective TRPV2 antagonist (IC_{50}=0.46 μM). SET2 blocks the TRP channel and suppresses prostate cancer cells migration. SET2 reduces the lysophosphatidic acid (LPA, a TRPV2 activator)-induced cytoplasmic calcium increases[1].

IC_{50} & Target

TRPV2

0.46 μM (IC_{50})

In Vitro

SET2 (20 μM; 24 h) abrogates the migration of PC-3M cells expressing TRPV2[1].

SET2 (20 μM; 24 h) inhibits 2-APB-evoked current in HEK293T cells transiently co-transfected with TRPV2 and LPAR1[1].

SET2 (20 μM; 24 h) inhibits the increase of (0.1 μM; 3 min) LPA-induced cytoplasmic calcium and LPA-induced migration in PC-3M cells[1].

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

Cell Migration Assay [1]

Cell Line:	PC-3M prostate cancer cells
Concentration:	0, 5 μM, 10 μM, and 20 μM

Incubation Time:	24 hr and 48 hr
Result:	Inhibited cell migration of PC-3M cells, without inhibiting cell viability at 48 hours.

REFERENCES

[1]. Chai H, et al. Structure-Based Discovery of a Subtype-Selective Inhibitor Targeting a Transient Receptor Potential Vanilloid Channel. J Med Chem. 2019 Feb 14;62(3):1373-1384.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA