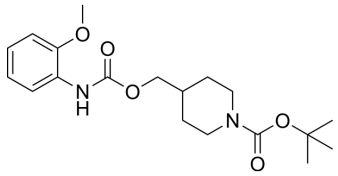
GW542573X

Cat. No.:	HY-12550
CAS No.:	660846-41-3
Molecular Formula:	$C_{19}H_{28}N_2O_5$
Molecular Weight:	364.44
Target:	Potassium Channel
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 : 125 mg/mL (342.99 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7439 mL	13.7197 mL	27.4394 mL
	5 mM	0.5488 mL	2.7439 mL	5.4879 mL
	10 mM	0.2744 mL	1.3720 mL	2.7439 mL

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

BIOLOGICAL ACTIVITY

Description

GW542573X is a potent and selective Ca^{2+}-activated K^+ 2 (SK2) channels activator. GW542573X induces the Ca^{2+}-response curve of hSK1 that left-shifted from an EC_{50} (Ca^{2+}) value of 410 nM to 240 nM[1].

REFERENCES

[1]. Hougaard C, et, al. Selective activation of the SK1 subtype of human small-conductance Ca2+-activated K+ channels by 4-(2-methoxyphenylcarbamoyloxymethyl)-piperidine-1-carboxylic acid tert-butyl ester (GW542573X) is dependent on serine 293 in the S5 segment. Mol Pharmacol. 2009 Sep;76(3):569-78.

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

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