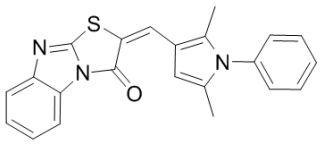
ITX3

Cat. No.:	HY-16663
CAS No.:	347323-96-0
Molecular Formula:	$C_{22}H_{17}N_3OS$
Molecular Weight:	371.45
Target:	Others
Pathway:	Others

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 : 2 mg/mL (5.38 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6922 mL	13.4608 mL	26.9215 mL
	5 mM	0.5384 mL	2.6922 mL	5.3843 mL
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

ITX3 is a specific and nontoxic inhibitor of the TrioN (N-terminal GEF domain of the multidomain Trio protein) with IC50 of 76 uM; inhibits TrioN-stimulated RhoG exchange in vitro.IC50 value: 76 uM [1]Target: TrioN inhibitorIn transfected mammalian cells, ITX3 blocked TrioN-mediated dorsal membrane ruffling and Rac1 activation while having no effect on GEF337-, Tiam1-, or Vav2-mediated RhoA or Rac1 activation. ITX3 specifically inhibited endogenous TrioN activity, as evidenced by its ability to inhibit neurite outgrowth in nerve growth factor (NGF)–stimulated PC12 cells or C2C12 differentiation into myotubes [1]. ITX3 repressed the Rac1 activity and dose dependently up-regulated the E-cadherin protein level in the Tara-KD cells [2].

CUSTOMER VALIDATION

- J Genet Genomics. 2019 Feb;46(2):87-96.

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REFERENCES

[1]. Bouquier N, et al. A cell active chemical GEF inhibitor selectively targets the Trio/RhoG/Rac1 signaling pathway. Chem Biol. 2009 Jun 26;16(6):657-66.

[2]. Yano T, et al. Tara up-regulates E-cadherin transcription by binding to the Trio RhoGEF and inhibiting Rac signaling. J Cell Biol. 2011 Apr 18;193(2):319-32.

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