ITX3

Cat. No.:	HY-16663		
CAS No.:	347323-96-	0	
Molecular Formula:	C ₂₂ H ₁₇ N ₃ OS		
Molecular Weight:	371.45		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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SOLVENT & SOLUBILITY

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

BIOLOGICAL ACTIVITY				
Description	ITX3 is a specific and nontoxic inhibitor of TrioN (N-terminal GEF domain of the multidomain Trio protein) with an IC ₅₀ value of 76 μ M. ITX3 can be used for the research of agent ^{[1][2]} .			
IC ₅₀ & Target	IC50: 76 μM (TrioN) ^[1]			
In Vitro	 ITX3 (5, 10, 25, 50 and 100 μM; 24 h) inhibits TrioN signaling^[1]. ITX3 (50 μM; 1 h) specifically inhibits TrioN^[1]. ITX3 (100 μM; 36 h) inhibits nerve growth factor-induced neurite outgrowth in PC12 cells^[1]. ITX3 (1, 10 and 100 μM) represses Rac1 activity and dose-dependently up-regulates the E-cadherin protein level and phospho-p38 signal in Tara-KD cells^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1] Cell Line: TrioN-, GEF337-, Tiam1- and Vav2-expressing HEK293 cell lines^[1] 			

Product Data Sheet

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Concentration:	50 μΜ
Incubation Time:	1 hour
Result:	Decreased TrioN-induced Rac activity.

CUSTOMER VALIDATION

- J Genet Genomics. 2019 Feb;46(2):87-96.
- FEBS Lett. 2022 Jun 18.

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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.

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

 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