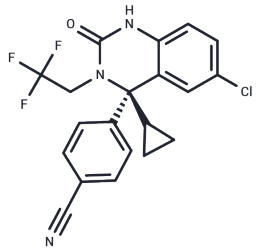
Data Sheet (Cat.No.T13219)

TargetMol

TTA-Q6

Chemical Properties



CAS No. :	910484-28-5
Formula:	C20H15ClF3N3O
Molecular Weight:	405.8
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	TTA-Q6, a selective T-type Ca2+ channel antagonist, exhibits potential antitumor and immunomodulatory activities for treating neurological disorders by inhibiting the uptake of extracellular calcium ions by tumor cells, thereby inducing intracellular calcium deficiency and endoplasmic reticulum (ER) stress.
Targets(IC50)	Calcium Channel
In vitro	In the acidic tumor microenvironment, TTA-Q6 is released, disrupting cancer cell calcium uptake, inducing endoplasmic reticulum stress, and promoting the translocation of calcium-binding proteins to the cell surface[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (246.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4643 mL	12.3213 mL	24.6427 mL
5 mM	0.4929 mL	2.4643 mL	4.9285 mL
10 mM	0.2464 mL	1.2321 mL	2.4643 mL
50 mM	0.0493 mL	0.2464 mL	0.4929 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Guo Y,et al. Nanomedicine-based co-delivery of a calcium channel inhibitor and a small molecule targeting CD47 for lung cancer immunotherapy. Nat Commun. 2023 Nov 11;14(1):7306.

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