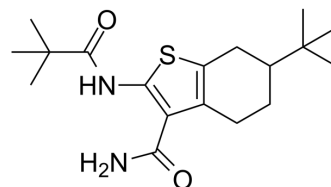


ANO1-IN-1

Cat. No.:	HY-146320		
CAS No.:	407587-01-3		
Molecular Formula:	C ₁₈ H ₂₈ N ₂ O ₂ S		
Molecular Weight:	336.49		
Target:	Chloride 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 : 250 mg/mL (742.96 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9719 mL	14.8593 mL	29.7186 mL
5 mM	0.5944 mL	2.9719 mL	5.9437 mL
10 mM	0.2972 mL	1.4859 mL	2.9719 mL

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

BIOLOGICAL ACTIVITY

Description	ANO1-IN-1 (Compound 9c) is a selective ANO1 channel blocker with an IC ₅₀ of 2.56 μM and 15.43 μM against ANO1 and ANO2, respectively. ANO1-IN-1 suppresses strongly proliferation of glioblastoma cells ^[1] .
IC ₅₀ & Target	IC ₅₀ : 2.56 μM (ANO1), 15.43 μM (ANO2) ^[1]
In Vitro	ANO1-IN-1 (Compound 9c) (10 μM) significantly suppresses migration and invasion of U251 cells ^[1] . ANO1-IN-1 and TMZ combination brings about remarkable synergistic effects in suppressing proliferation of GBM cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Choi SH, et al. Anti-glioma effects of 2-aminothiophene-3-carboxamide derivatives, ANO1 channel blockers. Eur J Med Chem. 2020 Dec 15;208:112688.

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

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