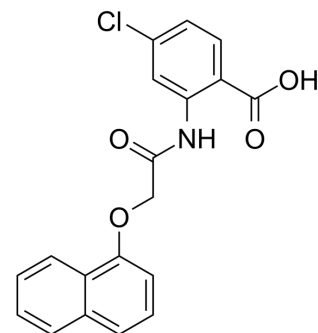


TRPM4-IN-2

Cat. No.:	HY-128172		
CAS No.:	667411-04-3		
Molecular Formula:	C ₁₉ H ₁₄ ClNO ₄		
Molecular Weight:	355.77		
Target:	TRP Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
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 : 100 mg/mL (281.08 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.8108 mL	14.0540 mL	28.1080 mL
5 mM	0.5622 mL	2.8108 mL	5.6216 mL
10 mM	0.2811 mL	1.4054 mL	2.8108 mL

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

BIOLOGICAL ACTIVITY

Description

TRPM4-IN-2 (NBA) is a potent transient receptor potential melastatin 4 (TRPM4) inhibitor with an IC₅₀ value of 0.16 μM. TRPM4-IN-2 can be used for researching prostate cancer and colorectal cancer^{[1][2]}.

IC₅₀ & Target

TRPM4
0.16 μM (IC₅₀)

In Vitro

TRPM4-IN-2 (NBA) (50 μM; 0-500 s) blocks the endogenous TRPM4 currents in DU145^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Cell Proliferation Assay^[1]

Cell Line:	DU145
Concentration:	50 μM
Incubation Time:	0-500 s

Result:

Blocked $88 \pm 9\%$ of the endogenous TRPM4 currents at 50 μM .

REFERENCES

- [1]. Borgström A, et al. Small Molecular Inhibitors Block TRPM4 Currents in Prostate Cancer Cells, with Limited Impact on Cancer Hallmark Functions. *J Mol Biol.* 2021 Aug 20;433(17):166665.
- [2]. Stokłosa P, et al. Investigation of Novel Small Molecular TRPM4 Inhibitors in Colorectal Cancer Cells. *Cancers (Basel).* 2021 Oct 28;13(21):5400.
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Caution: Product has not been fully validated for medical applications. For research use only.

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