GMQ

Cat. No.: HY-107757

CAS No.: 5361-15-9

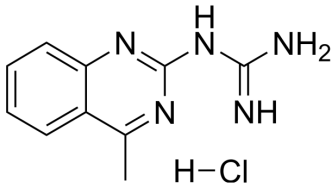
Molecular Formula: $C_{10}H_{12}ClN_5$

Molecular Weight: 237.69

Target: Sodium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 3.33 mg/mL (14.01 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.2072 mL	21.0358 mL	42.0716 mL
	5 mM	0.8414 mL	4.2072 mL	8.4143 mL
	10 mM	0.4207 mL	2.1036 mL	4.2072 mL

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

BIOLOGICAL ACTIVITY

Description

GMQ is a ASIC (acid-sensing ion) channel activator with an EC_{50} value of 1.83 mM for ASIC3 at pH 7.4. GMQ opens only ASIC3 but no other ASICs at pH 7.4. GMQ can be used for neurological disease research[1].

In Vitro

GMQ (1 mM) generates a sustained inward current at pH 7.4 in CHO cells[1].
GMQ blocks ASIC pore at high concentrations with IC_{50} values of 3.24, 1.52 and 6.74 mM for ASIC1a, ASIC1b and ASIC3, respectively[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Alijevic O, Kellenberger S. Subtype-specific modulation of acid-sensing ion channel (ASIC) function by 2-guanidine-4-methylquinazoline. J Biol Chem. 2012 Oct 19;287(43):36059-70.

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

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