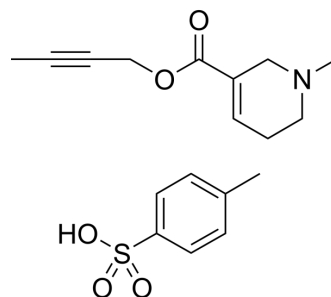


Arecaidine but-2-ynyl ester tosylate

Cat. No.:	HY-107655
CAS No.:	119630-77-2
Molecular Formula:	C ₁₈ H ₂₃ NO ₅ S
Molecular Weight:	365.44
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	-20°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

DMSO : 125 mg/mL (342.05 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7364 mL	13.6821 mL	27.3643 mL
	5 mM	0.5473 mL	2.7364 mL	5.4729 mL
	10 mM	0.2736 mL	1.3682 mL	2.7364 mL

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

BIOLOGICAL ACTIVITY

Description

Arecaidine but-2-ynyl ester tosylate (ABET) is a selective mAChR M2 agonist that dose-dependently decreases mean arterial pressure and heart rate in rats. Arecaidine but-2-ynyl ester tosylate can be used for cardiovascular disease research^{[1][2]}. Arecaidine but-2-ynyl ester (tosylate) is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

REFERENCES

[1]. Yoon SY, et al. A spinal muscarinic M2 receptor-GABAergic disinhibition pathway that modulates peripheral inflammation in mice. *Neuropharmacology*. 2007 Oct;53(5):677-86.

[2]. Zhang C, et al. Role of Muscarinic Acetylcholine Receptor-2 in the Cerebellar Cortex in Cardiovascular Modulation in Anaesthetized Rats. *Neurochem Res*. 2016 Apr;41(4):804-12.

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

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