BRL-44408 maleate

Cat. No.: HY-12716A

CAS No.: 681806-46-2

Molecular Formula: $C_{17}H_{21}N_3O_4$

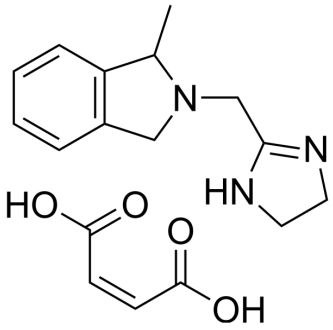
Molecular Weight: 331.37

Target: Adrenergic Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: -20°C, sealed storage, away from moisture

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 30 mg/mL (90.53 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0178 mL	15.0889 mL	30.1777 mL
	5 mM	0.6036 mL	3.0178 mL	6.0355 mL
	10 mM	0.3018 mL	1.5089 mL	3.0178 mL

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

BIOLOGICAL ACTIVITY

Description

BRL-44408 maleate is an α2A-adrenoceptor antagonist (K_i: 8.5 nM). BRL-44408 maleate has antidepressant and analgesic activity. BRL-44408 also improves cecal ligation puncture (CLP)-induced acute lung injury[1][2].

IC_{50} & Target

Ki: 8.5 nM (α2A-adrenoceptor)[1]

REFERENCES

[1]. Dwyer JM, et al. Preclinical characterization of BRL 44408: antidepressant- and analgesic-like activity through selective alpha2A-adrenoceptor antagonism. Int J Neuropsychopharmacol. 2010 Oct;13(9):1193-205.

[2]. Cong Z, et al. α2A -AR antagonism by BRL-44408 maleate attenuates acute lung injury in rats with downregulation of ERK1/2, p38MAPK, and p65 pathway. J Cell Physiol. 2020 Oct;235(10):6905-6914.

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

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