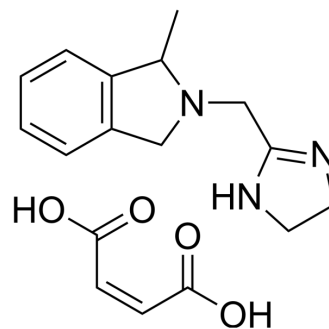


## BRL-44408 maleate

Cat. No.:	HY-12716A
CAS No.:	681806-46-2
Molecular Formula:	C <sub>17</sub> H <sub>21</sub> N <sub>3</sub> O <sub>4</sub>
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)



### BIOLOGICAL ACTIVITY

Description	BRL-44408 maleate is an $\alpha$ 2A-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 <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	Ki: 8.5 nM ( $\alpha$ 2A-adrenoceptor) <sup>[1]</sup>

### 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.  $\alpha$ 2A -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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