
Product Data Sheet

Product Name: 2-MPMDQ

Cat. No.: GC16412

Chemical Properties

Cas. No. 149847-77-8

Chemical Name (R)-2-((4-(2-methoxyphenyl)piperazin-1-yl)methyl)-6-methyl-2,3-dihydroimidazo[1,2-c]quinazolin-5(6H)-one

SMILES O=C1N2C[C@@H](CN3CCN(C4=CC=CC=C4OC)CC3)N=C2C5=CC=CC=C5N1CFormula $C_{23}H_{27}N_5O_2$ M.Wt 405.5

Solubility <20.27mg/ml in DMSO Storage Store at RT

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

2-MPMDQ is a potent and selective antagonist of $\alpha 1$ -adrenoceptor [1].

$\alpha 1$ -adrenoceptor is a G protein-coupled receptor and mediates noradrenaline and adrenaline signal in the central and peripheral nervous systems. Also, $\alpha 1$ -adrenoceptor mediates smooth muscle contraction.

2-MPMDQ is a potent and selective $\alpha 1$ -adrenoceptor antagonist. In spontaneously hypertensive rats, 2-MPMDQ showed antihypertensive activity [1].

Reference:

[1]. Chern JW, Tao PL, Yen MH, et al. Studies on quinazolines. 5. 2,3-dihydroimidazo[1,2-c]quinazoline derivatives: a novel class of potent and selective alpha 1-adrenoceptor antagonists and antihypertensive agents. J Med Chem, 1993, 36(15): 2196-2207.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
