

Product Data Sheet

Product Name: L-372662

Cat. No.: GC63036

Chemical Properties

Cas. No. 162045-26-3

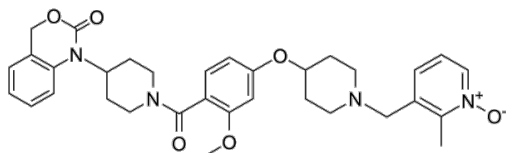
Formula $C_{33}H_{38}N_4O_6$ M.Wt 586.68

Solubility DMSO : 100 mg/mL (170.45 mM; Need ultrasonic) Storage Store at -20°C

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

L-372662 is a potent and orally active non-peptide oxytocin antagonist with a K_i value of 4.8. The K_d

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

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value of L-372662 for wild-type hOTR and [A318G]OTR is 5.8 nM and 73 nM. L-372662 shows selectivity to OTR:V1aR[1][2].

L-372662 is an antagonist of oxytocin-induced uterine contractions in late gestation pregnant rhesus monkeys (AD50 = 36 micrograms/kg), oral bioavailability (F = 90% in dogs), and aqueous solubility (10 mg/mL).

[1]. Bell, I. M., Erb, J. M., Freidinger, R. M., Gallicchio, S. N., Guare, J. P., Guidotti, M. T., ... Woyden, C. J. (1998). Development of Orally Active Oxytocin Antagonists: Studies on 1-(1-{4-[1-(2-Methyl-1-oxidopyridin-3-ylmethyl)piperidin-4-yloxy]-2-methoxybenzoyl}piperidin-4-yl)-1,4-dihydrobenz[d][1,3]oxazin-2-one (L-372,662) and Related Pyridines. *Journal of Medicinal Chemistry*, 41(12), 2146-2163.

[2]. Hawtin SR, et al. A Gly/Ala switch contributes to high affinity binding of benzoxazinone-based non-peptide oxytocin receptor antagonists. *FEBS Lett.* 2005;579(2):349-356.

[3]. Williams PD, et al. Progress in the development of oxytocin antagonists for use in preterm labor. *Adv Exp Med Biol.* 1998;449:473-479.

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