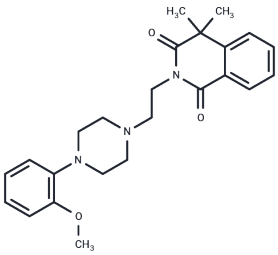
Data Sheet (Cat.No.T26651)

TargetMol

ARC-239

Chemical Properties



CAS No. : 67339-62-2

Formula: C24H29N3O3

Molecular Weight: 407.51

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	ARC-239 is an agonist of α2-adrenergic receptor.
Targets(IC50)	Others,5-HT Receptor,Adrenergic Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4539 mL	12.2696 mL	24.5393 mL
5 mM	0.4908 mL	2.4539 mL	4.9079 mL
10 mM	0.2454 mL	1.227 mL	2.4539 mL
50 mM	0.0491 mL	0.2454 mL	0.4908 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yamanaka D, Kawano T, Nishigaki A, Aoyama B, Tateiwa H, Shigematsu-Locatelli M, Locatelli FM, Yokoyama M. Preventive effects of dexmedetomidine on the development of cognitive dysfunction following systemic inflammation in aged rats. J Anesth. 2016 Oct 13. [Epub ahead of print] PubMed PMID: 27738803.

Wang Y, Wu S, Yu X, Zhou S, Ge M, Chi X, Cai J. Dexmedetomidine Protects Rat Liver against Ischemia-Reperfusion Injury Partly by the α2A-Adrenoceptor Subtype and the Mechanism Is Associated with the TLR4/NF-κB Pathway. Int J Mol Sci. 2016 Jun 23;17(7). pii: E995. doi: 10.3390/ijms17070995. PubMed PMID: 27347929; PubMed Central PMCID: PMC4964371.

Hajagos-Tóth J, Bóta J, Ducza E, Samavati R, Borsodi A, Benyhe S, Gáspár R. The effects of progesterone on the alpha2-adrenergic receptor subtypes in late-pregnant uterine contractions in vitro. Reprod Biol Endocrinol. 2016 Jun 14;14(1):33. doi: 10.1186/s12958-016-0166-9. PubMed PMID: 27301276; PubMed Central PMCID: PMC4908715.

Hajagos-Toth J, Bota J, Ducza E, Csanyi A, Tiszai Z, Borsodi A, Samavati R, Benyhe S, Gaspar R. The effects of estrogen on the α2-adrenergic receptor subtypes in rat uterine function in late pregnancy in vitro. Croat Med J. 2016 Apr 23;57(2):100-9. PubMed PMID: 27106352; PubMed Central PMCID: PMC4856191.