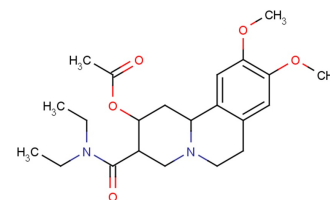


## Benzquinamide

## Chemical Properties

CAS No.:	63-12-7
Formula:	C <sub>22</sub> H <sub>32</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	404.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Benzquinamide is an antiemetic, can bind to the $\alpha$ 2A, $\alpha$ 2B, and $\alpha$ 2C adrenergic receptors ( $\alpha$ 2-AR) (K <sub>i</sub> of 1,365, 691, and 545 nM, respectively).
Targets(IC <sub>50</sub> )	$\alpha$ 2A: k <sub>i</sub> :1,365 nM $\alpha$ 2B: 691 nM (k <sub>i</sub> ) $\alpha$ 2C(k <sub>i</sub> ): 545 nM (k <sub>i</sub> )

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.472 mL	12.361 mL	24.722 mL
5 mM	0.494 mL	2.472 mL	4.944 mL
10 mM	0.247 mL	1.236 mL	2.472 mL
50 mM	0.049 mL	0.247 mL	0.494 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Elisabet Gregori-Puigjané, et al. Identifying mechanism-of-action targets for drugs and probes. Proc Natl Acad Sci U S A. 2012 Jul 10; 109(28): 11178-11183. doi: 10.1073/pnas.1204524109

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