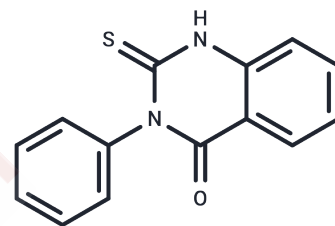


PDE7 inhibitor S14

Chemical Properties

CAS No. :	18741-24-7
Formula:	C ₁₄ H ₁₀ N ₂ O ₂ S
Molecular Weight:	254.31
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	PDE7 inhibitor S14 is a cell-permeable PDE7 inhibitor that acts by targeting the cyclic adenosine monophosphate (cAMP)/cAMP-response element-binding protein (CREB) pathway.
Targets(IC50)	Others,PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9322 mL	19.661 mL	39.3221 mL
5 mM	0.7864 mL	3.9322 mL	7.8644 mL
10 mM	0.3932 mL	1.9661 mL	3.9322 mL
50 mM	0.0786 mL	0.3932 mL	0.7864 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

Bartolome F, de la Cueva M, Pascual C, Antequera D, Fernandez T, Gil C, Martinez A, Carro E. Amyloid β -induced impairments on mitochondrial dynamics, hippocampal neurogenesis, and memory are restored by phosphodiesterase 7 inhibition. *Alzheimers Res Ther.* 2018 Feb 20;10(1):24. doi: 10.1186/s13195-018-0352-4. PubMed PMID: 29458418; PubMed Central PMCID: PMC5819290.

Morales-Garcia JA, Echeverry-Alzate V, Alonso-Gil S, Sanz-SanCristobal M, Lopez-Moreno JA, Gil C, Martinez A, Santos A, Perez-Castillo A. Phosphodiesterase7 Inhibition Activates Adult Neurogenesis in Hippocampus and Subventricular Zone In Vitro and In Vivo. *Stem Cells.* 2017 Feb;35(2):458-472. doi: 10.1002/stem.2480. Epub 2016 Sep 16. PubMed PMID: 27538853.

Morales-Garcia JA, Alonso-Gil S, Gil C, Martinez A, Santos A, Perez-Castillo A. Phosphodiesterase 7 inhibition induces dopaminergic neurogenesis in hemiparkinsonian rats. *Stem Cells Transl Med.* 2015 Jun;4(6):564-75. doi: 10.5966/sctm.2014-0277. Epub 2015 Apr 29. PubMed PMID: 25925836; PubMed Central PMCID: PMC4449102.

Perez-Gonzalez R, Pascual C, Antequera D, Bolos M, Redondo M, Perez DI, Pérez-Grijalba V, Krzyzanowska A, Sarasa M, Gil C, Ferrer I, Martinez A, Carro E. Phosphodiesterase 7 inhibitor reduced cognitive impairment and pathological hallmarks in a mouse model of Alzheimer's disease. *Neurobiol Aging.* 2013 Sep;34(9):2133-45. doi: 10.1016/j.neurobiolaging.2013.03.011. Epub 2013 Apr 9. PubMed PMID: 23582662.

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