

Product Data Sheet

Product Name: CM-675
Cat. No.: GC65426

Chemical Properties

Cas. No. 1872466-47-1

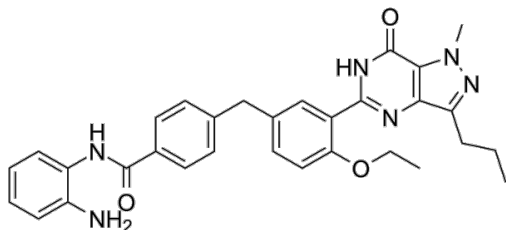
Formula C₃₁H₃₂N₆O₃ M.Wt 536.62

Solubility DMSO : 25 mg/mL (46.59 mM); ultrasonic and warming and heat to 60°C) 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



Protocol

HDAC1

PDE5

673nM(IC₅₀,30min(time-dependent)) 114nM(IC₅₀)

Background

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

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CM-675 is a dual phosphodiesterase 5 (PDE5) and class I histone deacetylases-selective inhibitor, with IC₅₀ values of 114 nM and 673 nM for PDE5 and HDAC1, respectively. CM-675 has potential to treat Alzheimer's disease[1].

CM-675 (29a) shows a significant time-dependent effect on class I HDAC inhibition, particularly towards HDAC2. For HDAC1, its inhibitory potency also increased significantly (~1 log unit) with the pre-incubation time: 673 nM (30 min), 180 nM (4 hours) and 69 nM (6 hours) [1].

[1]. Rabal O, et al. Discovery of in Vivo Chemical Probes for Treating Alzheimer's Disease: Dual Phosphodiesterase 5 (PDE5) and Class I Histone Deacetylase Selective Inhibitors. ACS Chem Neurosci. 2019 Mar 20;10(3):1765-1782.

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