CM-675

Cat. No.: HY-114303
CAS No.: 1872466-47-1
Molecular Formula: C₃₁H₃₂N₆O₃
Molecular Weight: 536.62
Target: Phosphodiesterase (PDE); HDAC
Pathway: Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Epigenetics
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description
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].

<table>
<thead>
<tr>
<th>IC₅₀ &amp; Target</th>
<th>HDAC1 673 nM (IC₅₀, 30 min (time-dependent))</th>
<th>PDE5 114 nM nM (IC₅₀)</th>
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In Vitro
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].

REFERENCES