Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

BAY 73-6691

Catalog No: tcsc0025654

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
794568-92-6

Formula:
$C_{15}H_{12}ClF_3N_4O$

Pathway:
Metabolic Enzyme/Protease

Target:
Phosphodiesterase (PDE)

Purity / Grade:
>98%

Solubility:
DMSO : 160 mg/mL (448.52 mM; Need ultrasonic and warming)

Alternative Names:
(R)-BAY 73-6691

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Observed Molecular Weight:
356.73

Product Description

BAY 73-6691 is a potent, selective brain penetrant **PDE9A** inhibitor.

IC50 & Target: PDE9A[1]

In Vitro: The BAY 73-6691 dose-dependently alleviates cell viability loss due to $A\beta_{25-35}$ treatment. It is found that when SH-SY5Y cells are cultured by $A\beta_{25-35}$, a high degree of cell apoptosis is observed, while additional stimulation with BAY 73-6691 causes attenuation of cell apoptosis. BAY 73-6691 dose-dependently attenuates oxidative stress induced by $A\beta_{25-35}$, and BAY 73-6691 at 200 μg/mL almost neutralizes $A\beta_{25-35}$-induced oxidative damage. The BAY 73-6691 attenuates $A\beta_{25-35}$-induced increase of apoptosis cells[1].

In Vivo: BAY 73-6691 dose-dependently improves the acquisition performance in the $A\beta_{25-35}$-injected mice on days 7 to 10 (day 7, $F_{(5,54)}$=65.153; day 8, $F_{(5,54)}$=62.340; day 9, $F_{(5,54)}$=37.529; day 10, $F_{(5,54)}$=38.624; P25-35-induced decrease of the dwell time on the 10th day post $A\beta_{25-35}$ injection (day 10, $F_{(5,54)}$=27.360, P25-35 injection and BAY 73-6691 treatment cause no influence on the swimming speed. Treatment with BAY 73-6691 does not cause detectable alteration of spatial memory in sham mice. BAY 73-6691 alleviates $A\beta_{25-35}$-induced abnormalities of the above indices. The BAY 73-6691 causes no influence on the four indices mentioned above in sham mice. The BAY 73-6691 has no significant effect on the apoptosis of hippocampal neurons in sham mice[1].