

Bay-K-8644 ((R) - (+) -)

Catalog No: tcsc3614

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:

98791-67-4

Formula:

 $C_{16}H_{15}F_{3}N_{2}O_{4}$

Pathway: Membrane Transporter/Ion Channel

Target:

Calcium Channel

Purity / Grade:

Solubility: DMSO : ≥ 300 mg/mL (841.99 mM)

Alternative Names:

(R)-(+)-Bay-K-8644;R-4407;NI-105;(+)-BAY-K-8644

Observed Molecular Weight:

356.3

Product Description

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Bay-K-8644 (R)-(+)- is a **calcium channel** inhibitor. Bay-K-8644 (R)-(+)- inhibits Ba^{2+} currents (I_{Ba}) (IC_{50} =975 nM).

IC50 & Target: IC50: 975 nM (I_{Ba})^[1]

In Vitro: (±)-Bay K 8644, a conventional racemic mixture of Bay K 8644, is widely used as an L-type Ca²⁺ channel agonist. Each optical isomer possesses opposite effects on I_{Ba}, Bay-K-8644 (R)-(+)- as an antagonist and S(-)-Bay K 8644 as an agonist. Bay-K-8644 (R)-(+)- inhibits Ba²⁺ currents (I_{Ba}) (IC₅₀=975 nM). When Bay-K-8644 (R)-(+)- (0.5 μ M) is applied, I_{Ba} is suppressed to 71±10% of control. In the presence of Bay-K-8644 (R)-(+)- (0.5 μ M), additional application of forskolin and sodium nitroprusside (SNP) further inhibits I_{Ba}^[1]. Bay-K-8644 (R)-(+)- is a calcium channel inhibitor^[2].



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