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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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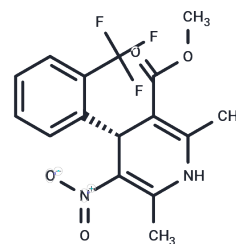
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(R)-(+)-Bay-K-8644

Chemical Properties

CAS No. : 98791-67-4
 Formula: C₁₆H₁₅F₃N₂O₄
 Molecular Weight: 356.3
 Appearance: no data available
 Storage: store at low temperature
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	(R)-(+)-Bay-K-8644 is a Ca ²⁺ channel and dihydropyridine agonist that inhibits Ba ²⁺ currents (IBa), induces central respiratory depression in cats, and inhibits platelet activation through competitive antagonism of thromboxane A ₂ -prostaglandin H ₂ receptors.
Targets(IC ₅₀)	Calcium Channel,PPAR
In vitro	(R)-(+)-Bay-K-8644, a component of the racemic mixture Bay K 8644, is a well-known L-type Ca ²⁺ channel agonist but functions as an inhibitor of Ba ²⁺ currents (IBa) with an IC ₅₀ of 975 nM. At a concentration of 0.5 μM, it reduces IBa to 71±10% of the control level, demonstrating its efficacy in inhibiting Ba ²⁺ currents. Notably, this compound acts as a calcium channel inhibitor, crucial for modulating calcium channel activity [2].

Solubility Information

Solubility	DMSO: 100 mg/mL (280.66 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8066 mL	14.0331 mL	28.0662 mL
5 mM	0.5613 mL	2.8066 mL	5.6132 mL
10 mM	0.2807 mL	1.4033 mL	2.8066 mL
50 mM	0.0561 mL	0.2807 mL	0.5613 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.

Reference

Sidaway P, et al. L-type Ca^{2+} channel sparklets revealed by TIRF microscopy in mouse urinary bladder smooth muscle. PLoS One. 2014 Apr 3;9(4):e93803.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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