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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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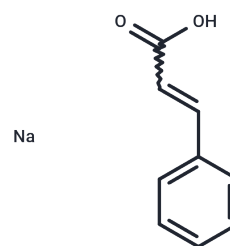
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Cinnamic acid sodium

Chemical Properties

CAS No. :	538-42-1
Formula:	C ₉ H ₇ NaO ₂
Molecular Weight:	170.14
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Sodium cinnamate, a naturally occurring low-toxicity aromatic fatty acid with oral activity, exhibits neuroprotective and anti-inflammatory properties.
In vitro	Sodium cinnamate (0.05, 0.4, 3.2 mM; 6, 12, 24 h) induces apoptosis in HT-144 cells at a concentration of 3.2 mM after 24 hours.
In vivo	Administration of sodium cinnamic acid (100 mg/kg; gavage) activates Peroxisome Proliferator-Activated Receptor alpha (PPARα), enhances the protection of dopaminergic neurons from degeneration, restores striatal fibers and neurotransmitters, and improves the behavior of mice intoxicated with MPTP. Using a model involving 6-8 week-old C57BL/6 mice treated with 18 mg/kg MPTP-HCl, administered intraperitoneally at 2-hour intervals for four doses, sodium cinnamic acid was started 3 hours after the last MPTP injection. The results indicated protection of nigral TH levels and striatal innervation, restoration of locomotor deficits, increased activation of PPARα in primary mouse astrocytes, and protection of striatal TH mediated by PPARα activation.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8775 mL	29.3876 mL	58.7751 mL
5 mM	1.1755 mL	5.8775 mL	11.755 mL
10 mM	0.5878 mL	2.9388 mL	5.8775 mL
50 mM	0.1176 mL	0.5878 mL	1.1755 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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