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Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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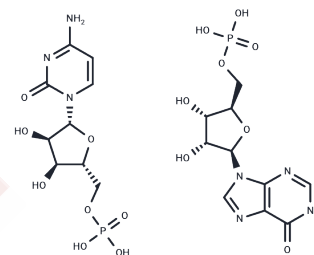
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Polyinosinic-polycytidylic acid

Chemical Properties

CAS No. :	24939-03-5
Formula:	(C ₁₀ H ₁₃ N ₄ O ₈ P) _x .(C ₉ H ₁₄ N ₃ O ₈ P) _x
Molecular Weight:	
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Polyinosinic-polycytidylic acid (Poly(I:C)) is a double-stranded RNA (dsRNA) and a TLR3 agonist. Polyinosinic-polycytidylic acid induces natural immunity in mammals.
Targets(IC50)	TLR
In vitro	<p>METHODS: Cervical cancer cells HeLa, SiHa, C33A and lung cancer cells A549 were treated with polyinosinic-polycytidylic acid (0.1-1 µg/mL) for 24 h, and cell death was detected using PI Staining.</p> <p>RESULTS: Polyinosinic-polycytidylic acid effectively induced tumor cell death in a dose-dependent pattern. [1]</p> <p>METHODS: Rat astrocytes were pretreated with polyinosinic-polycytidylic acid (10-20 µg/mL) for 12 h, and then exposed to oxygen-glucose deprivation (OGD) for 12 h. The morphology of the cells was examined by microscopy.</p> <p>RESULTS: OGD induced significant cellular damage, and the cells appeared to be healthier in the group pretreated with polyinosinic-polycytidylic acid. Polyinosinic-polycytidylic acid exerted a certain degree of protective effect against OGD-induced damage in cultured astrocytes. [2]</p>
In vivo	<p>METHODS: To investigate the neuroprotective effects in an acute ischemia model, Polyinosinic-polycytidylic acid (0.3 mg/kg) was administered as a single intramuscular injection to Kun-Ming strain mice, and a model of arterial occlusion (MCAO) was constructed 2 h later.</p> <p>RESULTS: Administration of polyinosinic-polycytidylic acid significantly attenuated neurological deficits in the ischemic striatum and cortex, reduced infarct volume, and suppressed the elevation of TNFα and IL-6 levels. [2]</p> <p>METHODS: To test the antitumor activity in vivo, Polyinosinic-polycytidylic acid (1-100 µg/mouse) was intraperitoneally injected into a mouse model of metastatic tumors C57BL/6j induced by cutaneous melanoma B16-F10.</p> <p>RESULTS: Lung tumor growth stopped after a single dose of Polyinosinic-polycytidylic acid. Polyinosinic-polycytidylic acid has potential antitumor activity in an established mouse model of lung metastasis. [3]</p>

Solubility Information

A DRUG SCREENING EXPERT

Solubility	H2O: ≥ 21.5 mg/mL, DMSO: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Li Y, Ma X, Yue Y, et al. Rapid surface display of mRNA antigens by bacteria-derived outer membrane vesicles for a personalized tumor vaccine. *Advanced Materials*. 2022: 2109984.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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