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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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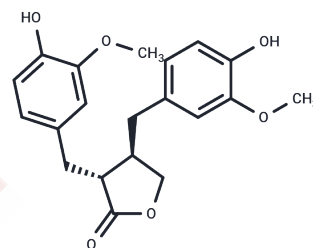
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Matairesinol

Chemical Properties

CAS No. :	580-72-3
Formula:	C ₂₀ H ₂₂ O ₆
Molecular Weight:	358.39
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Matairesinol has radical and superoxide scavenging activities,; it also has anti-angiogenic activity by suppressing mROS signaling , can decrease hypoxia-inducible factor-1 α in hypoxic HeLa cells.
Targets(IC ₅₀)	ATPase,p38 MAPK,ROS
In vitro	Here we observed that of the three tested lignan molecules, Matairesinol (MAT) was the most effective as a death receptor-sensitizing agent. MAT sensitized the androgen-dependent LNCaP cells to TRAIL-induced apoptosis both in the presence and absence of androgens. Treatment with MAT markedly decreased Akt activity, which has been implicated as a key signaling mechanism in the TRAIL resistance of LNCaP prostate cancer cells. The involvement of the pathway in the MAT-mediated sensitization was shown in rescue experiments using ectopic expression of constitutively active Akt[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7903 mL	13.9513 mL	27.9026 mL
5 mM	0.5581 mL	2.7903 mL	5.5805 mL
10 mM	0.279 mL	1.3951 mL	2.7903 mL
50 mM	0.0558 mL	0.279 mL	0.5581 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

Inhibition of Akt signaling by the lignan matairesinol sensitizes prostate cancer cells to TRAIL-induced apoptosis. Oncogene. 2010 Feb 11;29(6):898-908.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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