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Zuschläge

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- Trockeneiszuschlag
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- Expressversand

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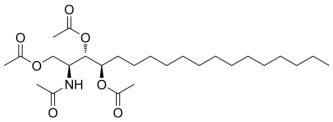
Tetraacetylphytosphingosine

Cat. No.:	HY-138875
CAS No.:	13018-48-9
Molecular Formula:	$C_{26}H_{47}NO_7$
Molecular Weight:	485.65
Target:	p38 MAPK; Apoptosis
Pathway:	MAPK/ERK Pathway; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Tetraacetylphytosphingosine is a sphingolipid metabolite produced by phytosphingosine acetylation. Tetraacetylphytosphingosine exerts its inhibitory action on angiogenesis through the inhibition of MAPK activation and intracellular calcium increase[1]. Tetraacetylphytosphingosine induces apoptosis in HaCaT cells[2].

In Vitro

Tetraacetylphytosphingosine (TAPS; 5 μM; 24 h) markedly decreases VEGF-induced chemotactic migration and capillary-like tube formation in HUVEC. Tetraacetylphytosphingosine significantly inhibits VEGF-induced proteolytic enzyme production, including MMP-2, urokinase-type plasminogen activator (uPA) and plasminogen activator inhibitor-1 (PAI-1). Tetraacetylphytosphingosine also suppresseS VEGF-induced phosphorylation of p42/44 extracellular signal-regulated kinase and c-JNK[1].

In addition, Tetraacetylphytosphingosine abolished VEGF-induced intracellular calcium increase[1].

In HaCaT cells, Tetraacetylphytosphingosine co-treatment synergistically increases the level of UVB-induced apoptosis via caspase activation by regulating the level of pro-apoptotic Bax and anti-apoptotic Bcl-2[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	HUVEC
Concentration:	5 μM
Incubation Time:	24 h
Result:	Markedly inhibits VEGF-induced proteolytic enzyme production, including MMP-2, uPA and PAI-1.

REFERENCES

[1]. Yoo Bin Kwon, et al. Anti-angiogenic effect of tetraacetyl-phytosphingosine. Exp Dermatol. 2007 Apr;16(4):311-7.

[2]. H J Kim, et al. Potentiation of UVB-induced apoptosis by novel phytosphingosine derivative, tetraacetyl phytosphingosine in HaCaT cell and mouse skin. Apoptosis. 2004 Jul;9(4):449-56.

Caution: Product has not been fully validated for medical applications. For research use only.

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