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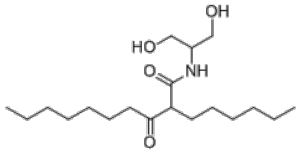
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	K6PC-5
Cat. No.	:	PC-49431
CAS No.	:	756875-51-1
Molecular Formula	:	$C_{19}H_{37}NO_4$
Molecular Weight	:	343.50
Target	:	Sphingosine kinase (SphK)
Solubility	:	10 mM in DMSO



Biological Activity

K6PC-5 is a synthetic ceramide derivative, selective and direct sphingosine kinase 1 (**SphK1**) activator.
K6PC-5 ameliorates intestinal homeostasis in an animal model of Huntington's disease.
K6PC-5 increases intracellular calcium levels and promote epidermal keratinocyte differentiation, stimulates the phosphorylation of p42/44 extracellular signal-regulated kinase and c-Jun N-terminal kinase.
K6PC-5 inhibits OGD/reoxygenation-induced myocardial cell death probably through activating SphK1.
K6PC-5 markedly reduces the EBOV titer in infected cells and the de novo production of viral proteins in endothelial cells.

References

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Park HY, et al. Exp Dermatol. 2008 Oct;17(10):829-36.

Hong JH, et al. J Invest Dermatol. 2008 Sep;128(9):2166-78.

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