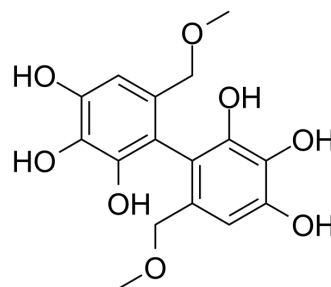


HBDDE

Cat. No.:	HY-131305
CAS No.:	154675-18-0
Molecular Formula:	C ₁₆ H ₁₈ O ₈
Molecular Weight:	338.31
Target:	PKC; Apoptosis
Pathway:	Epigenetics; TGF-beta/Smad; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HBDDE, a derivative of Ellagic acid, is an isoform-selective PKC α and PKC γ inhibitor with IC ₅₀ s of 43 μ M and 50 μ M, respectively. HBDDE shows selective for PKC α /PKC γ over PKC δ , PKC β and PKC β II isozymes. HBDDE induces neuronal apoptosis ^{[1][2]} .									
IC₅₀ & Target	PKC α 43 μ M (IC ₅₀)	PKC γ 50 μ M (IC ₅₀)								
In Vitro	<p>HBDDE (50 μM; 5 hours) treatment reduces cell viability significantly by ~70%. HBDDE exhibits a marked increase in caspase-3 activity^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Cerebellar granule cells</td> </tr> <tr> <td>Concentration:</td> <td>50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>5 hours</td> </tr> <tr> <td>Result:</td> <td>Reduced cell viability significantly by ~70%.</td> </tr> </table>		Cell Line:	Cerebellar granule cells	Concentration:	50 μ M	Incubation Time:	5 hours	Result:	Reduced cell viability significantly by ~70%.
Cell Line:	Cerebellar granule cells									
Concentration:	50 μ M									
Incubation Time:	5 hours									
Result:	Reduced cell viability significantly by ~70%.									

REFERENCES

[1]. A Mathur, et al. 2,2',3,3',4,4'-Hexahydroxy-1,1'-biphenyl-6,6'-dimethanol dimethyl ether (HBDDE)-induced neuronal apoptosis independent of classical protein kinase C alpha or gamma inhibition. *Biochem Pharmacol.* 2000 Sep 15;60(6):809-15.

[2]. Y Kashiwada, et al. New hexahydroxybiphenyl derivatives as inhibitors of protein kinase C. *J Med Chem.* 1994 Jan 7;37(1):195-200.

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

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