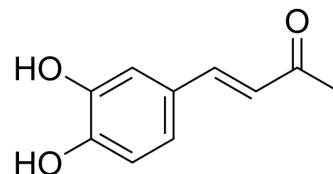


(E)-Osmundacetone

Cat. No.:	HY-N1966
CAS No.:	123694-03-1
Molecular Formula:	C ₁₀ H ₁₀ O ₃
Molecular Weight:	178.19
Target:	p38 MAPK; JNK; ERK
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (561.20 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>5.6120 mL</td> <td>28.0599 mL</td> <td>56.1199 mL</td> </tr> <tr> <td>5 mM</td> <td>1.1224 mL</td> <td>5.6120 mL</td> <td>11.2240 mL</td> </tr> <tr> <td>10 mM</td> <td>0.5612 mL</td> <td>2.8060 mL</td> <td>5.6120 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	5.6120 mL	28.0599 mL	56.1199 mL	5 mM	1.1224 mL	5.6120 mL	11.2240 mL	10 mM	0.5612 mL	2.8060 mL	5.6120 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.03 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (14.03 mM); Clear solution; Need ultrasonic 																					

BIOLOGICAL ACTIVITY

Description	(E)-Osmundacetone is the isomer of Osmundacetone. Osmundacetone significantly suppresses the phosphorylation of MAPKs, including JNK, ERK, and p38 kinases. Osmundacetone has a neuroprotective effect against oxidative stress ^[1] .
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CUSTOMER VALIDATION

<ul style="list-style-type: none"> Cancer Commun (Lond). 2022 Jul 29. Cell Mol Biol Lett. 2023 Jul 28;28(1):61.

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REFERENCES

[1]. Tuy An Trinh, et al. Protective Effect of Osmundacetone against Neurological Cell Death Caused by Oxidative Glutamate Toxicity. *Biomolecules*.2021 Feb 22;11(2):328.

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

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