

Produktinformation



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Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
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PRODUCT INFORMATION



Decursin

Item No. 25214

CAS Registry No.:	5928-25-6	
Formal Name:	3-methyl-2-butenoic acid, (7S)-7,8-	
	dihydro-8,8-dimethyl-2-oxo-2H,6H- pyrano[3 2-g]-1-benzopyran-7-yl ester	
Synonym:	(+)-Decursin	0, 0, 0, /
MF:	$C_{19}H_{20}O_5$	
FW:	328.4	
Purity:	≥98%	
UV/Vis.:	λ _{max} : 220, 330 nm	
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	≥2 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

Laboratory Procedures

Decursin is supplied as a crystalline solid. A stock solution may be made by dissolving the decursin in the solvent of choice. Decursin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of decursin in ethanol and DMSO is approximately 2 mg/ml and approximately 10 mg/ml in DMF.

Decursin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, decursin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Decursin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Decursin is a phytochemical originally isolated from A. gigas with diverse biological activities.¹⁻⁵ It reduces the growth of B16/F10 murine melanoma cells, but not NIH-3T3 fibroblasts, via induction of apoptosis and increased caspase-3 activity when used at concentrations ranging from 40 to 100 μ M.¹ In vivo, decursin (10 mg/kg, i.p.) reduces tumor growth in a B16/F10 mouse xenograft model. Decursin inhibits RANKL-induced osteoclast differentiation and decreases fusion and migrations of pre-osteoclasts in vitro and prevents LPS-induced bone erosion in mice.² In a mouse model of seizures induced by kainic acid (Item No. 78050), decursin (20 mg/kg) increases latency to the first electroencephalographic (EEG) discharge and attenuates the intensity and reduces the frequency of seizure discharges in the parietal cortex.³ Decursin inhibits tube formation and expression of VEGF receptor 2 (VEGFR2) in human retinal microvascular endothelial cells (HRMECs) and human umbilical vein endothelial cells (HUVECs) in vitro and reduces retinal expression of VEGFR2 and neovascularization in rats with diabetes induced by streptozotocin (Item No. 13104).⁴ It also reduces hepatic collagen expression, serum levels of ALT, AST, and ALP, and production of reactive oxygen species (ROS) in a mouse model of CCL₄-induced liver fibrosis.⁵

References

- 1. Kim, B.S., Seo, H., Kim, H.-J., et al. J. Med. Food. 18(10), 1121-1127 (2015).
- 2. Kim, K.-J., Yeon, J.-T., Choi, S.-W., et al. Bone 81, 208-216 (2015).
- 3. Lee, J.-K., Jeong, J.W., Jang, T., et al. Neuroreport. 25(16), 1243-1249 (2014).
- 4. Yang, Y., Yang, K., Li, Y., et al. Mol. Cell. Endocrinol. 378(1-2), 46-52 (2013).
- 5. Choi, Y.J., Kim, D.H., Kim, S.J., et al. Life Sci. 108(2), 94-103 (2014).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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