



Salvianolic acid A

Cat. No.:	OB0225WX-2383
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and LC-MS.
Size:	5 mg; 10 mg; 25 mg; 50 mg; 100 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Salvianolic acid A is a naturally occurring phenolic acid that functions as an inhibitor of matrix metalloproteinase 9 (MMP-9) and possesses intrinsic anti-inflammatory and antioxidant molecular properties.
Synonym	Dan Phenolic Acid A; 96574-01-5; (R)-3-(3,4-Dihydroxyphenyl)-2-(((E)-3-(2-((E)-3,4-dihydroxystyryl)-3,4-dihydroxyphenyl)acryloyl)oxy)propanoic acid; (+)-Salvianolic acid A; (2R)-3-(3,4-dihydroxyphenyl)-2-[(E)-3-[2-[(E)-2-(3,4-dihydroxyphenyl)ethenyl]-3,4-dihydroxyphenyl]prop-2-enoyl]oxypropanoic acid; Salvianolic-acid-A; (2R)-3-(3,4-dihydroxyphenyl)-2-[(E)-3-[2-[(E)-2-(3,4-dihydroxyphenyl)vinyl]-3,4-dihydroxy-phenyl]prop-2-enoyl]oxy-propanoic acid; (2R)-3-(3,4-dihydroxyphenyl)-2-[(2E)-3-{2-[(1E)-2-(3,4-dihydroxyphenyl)ethenyl]-3,4-dihydroxyphenyl}prop-2-enoyl]oxy}propanoic acid; (alphaR)-alpha-[[[(2E)-3-[2-[(1E)-2-(3,4-Dihydroxyphenyl)ethenyl]-3,4-dihydroxyphenyl]-1-oxo-2-propen-1-yl]oxy]-3,4-dihydroxybenzenepropanoic Acid; (R)-3-(3,4-Dihydroxyphenyl)-2-(((E)-3-(2-((E)-3,4-dihydroxystyryl)-3,4-dihydroxyphenyl)acryloyl)oxy)propanoic acid; Benzenepropanoic acid, alpha-((3-(2-(3,4-dihydroxyphenyl)ethenyl)-3,4-dihydroxyphenyl)-1-oxo-2-propenyl)oxy)-3,4-dihydroxy-, (R-(E,E))-
CAS No.	96574-01-5
Compound CID	5281793
Formula	C ₂₆ H ₂₂ O ₁₀
Formula Weight	494.45

Specification



Relative Density	1.580 g/cm ³
IUPAC Name	(2R)-3-(3,4-Dihydroxyphenyl)-2-[(E)-3-[2-[(E)-2-(3,4-dihydroxyphenyl)ethenyl]-3,4-dihydroxyphenyl]prop-2-enoyl]oxypropanoic acid
InChI	InChI=1S/C26H22O10/c27-18-7-2-14(11-21(18)30)1-6-17-16(4-9-20(29)25(17)33)5-10-24(32)36-23(26(34)35)13-15-3-8-19(28)22(31)12-15/h1-12,23,27-31,33H,13H2,(H,34,35)/b6-1+,10-5+/t23-/m1/s1
InChI Key	YMGFTDKNIWPMGF-UCPJVGPRSA-N
SMILES string	<chem>C1=CC(=C(C=C1C[C@H](C(=O)O)OC(=O)/C=C/C2=C(C(=C(C=C2)O)O)/C=C/C3=CC(=C(C=C3)O)O)O</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Salvianolic acid A is employed in cardiovascular and pharmacological research as a bioactive polyphenol to investigate its potent antioxidant capacity and its ability to protect vascular endothelial cells from oxidative injury.

Library Information

Target	MMP
Receptor	MMP-9
Pathways	Proteases/Proteasome
Plate Number	AOCL-31
Plate Location	e5
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	45 mg/mL; 91.01 mM
Ethanol Max Solubility	10 mg/mL
Special Max Solubility	Saline: 13 mg/mL; 26.29 mM