



Product Information

Microtubule/Tubulin inhibitor, Combretastatin A4, Purity $\geq 98\%$

Cat. No.: X24-08-YM224

Size: 10 mg; 25 mg; 50 mg; 100 mg

MDL: MFCD03453309

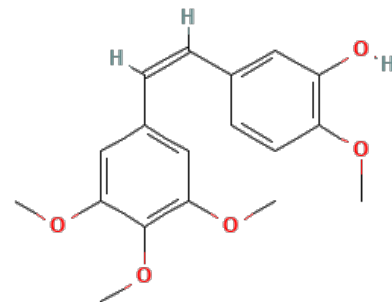
CAS Number: 117048-59-6

Compound CID: 5351344

Synonym: 117048-59-6; CRC 87-09; NSC 817373;

2-Methoxy-5-[(Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]phenol

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



Product Information

Description	Combretastatin A4, soluble in DMSO and warmed ethanol and insoluble in water, is an effective cytoskeleton inhibitor, that has the ability to prevent the pathway of cytoskeletal signaling by inhibiting microtubule/tubulin.
Molecular Weight	316.35
Molecular Formula	C ₁₈ H ₂₀ O ₅
IUPAC Name	2-Methoxy-5-[(Z)-2-(3,4,5-trimethoxyphenyl)ethenyl]phenol
InChI	InChI=1S/C18H20O5/c1-20-15-8-7-12(9-14(15)19)5-6-13-10-16(21-2)18(23-4)17(11-13)22-3/h5-11, 19H,1-4H3/b6-5-
InChI Key	HVXBOLULGPECHP-WAYWQWQTSA-N
Canonical SMILES	<chem>COC1=C(C=C(C=C1)C=CC2=CC(=C(C(=C2)OC)OC)OC)O</chem>
Isomeric SMILES	<chem>COC1=C(C=C(C=C1)/C=C/C2=CC(=C(C(=C2)OC)OC)OC)O</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Solubility	<i>In vitro</i> : DMSO: 58 mg/mL (183.34 mM); Water: insoluble; Ethanol (warmed): 31 mg/mL (97.99 mM); <i>In vivo</i> : 5% DMSO + 50% PEG 300 + ddH ₂ O, 28 mg/mL
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Combretastatin A4 is a cytoskeletal signaling inhibitor that plays a key role in disrupting the blood supply to tumors.



Storage

Store at -20°C, and keep desiccated.
