



Product Information

Microtubule/Tubulin inhibitor, CYT997, Purity $\geq 98\%$

Cat. No.: X24-08-YM216

Size: 5 mg; 10 mg; 50 mg; 100 mg

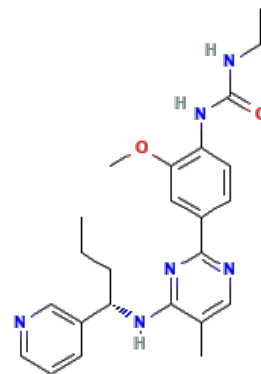
CAS Number: 917111-44-5

Compound CID: 11351021

Synonym: 917111-44-5; CYT-997; Lexibulin;

1-Ethyl-3-[2-methoxy-4-[5-methyl-4-[[[(1S)-1-pyridin-3-ylbutyl]amino]pyrimidin-2-yl]phenyl]urea

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



Product Information

Description	CYT997, soluble in DMSO and 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. It targets the microtubules (cancer cell lines).
Molecular Weight	434.5
Molecular Formula	C ₂₄ H ₃₀ N ₆ O ₂
Targets	Microtubules (cancer cell lines): 10-100 nM
IUPAC Name	1-Ethyl-3-[2-methoxy-4-[5-methyl-4-[[[(1S)-1-pyridin-3-ylbutyl]amino]pyrimidin-2-yl]phenyl]urea
InChI	InChI=1S/C24H30N6O2/c1-5-8-19(18-9-7-12-25-15-18)28-22-16(3)14-27-23(30-22)17-10-11-20(21(13-17)32-4)29-24(31)26-6-2/h7,9-15,19H,5-6,8H2,1-4H3,(H2,26,29,31)(H,27,28,30)/t19-m/s1
InChI Key	MTJHLONVHHPNSI-IBGZPJMESA-N
Canonical SMILES	CCCC(C1=CN=CC=C1)NC2=NC(=NC=C2C)C3=CC(=C(C=C3)NC(=O)NCC)OC
Isomeric SMILES	CCC[C@@H](C1=CN=CC=C1)NC2=NC(=NC=C2C)C3=CC(=C(C=C3)NC(=O)NCC)OC
Form	Lyophilized powder
Purity	$\geq 98\%$
Titer	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects
Solubility	<i>In vitro</i> : DMSO: 77 mg/mL (177.2 mM); Water: insoluble; Ethanol: 18 mg/mL (41.42 mM)
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	CYT997 is a cytoskeletal signaling inhibitor that can be studied extensively for its potential therapeutic applications in the treatment of various types of cancer.



Storage

Store at -20°C, and keep desiccated.
