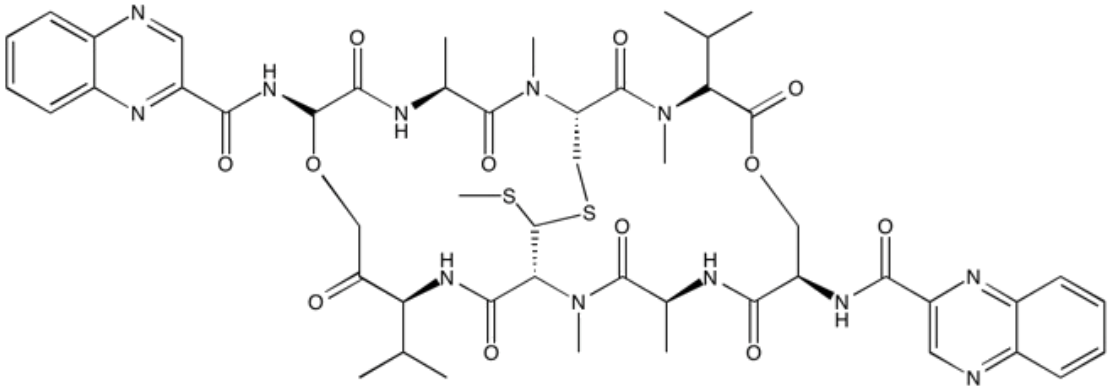
Catalog # 10-2424

Echinomycin

CAS# 512-64-1

Quinomycin A; NSC-13502

Lot # X101827



Echinomycin is a potent and selective hypoxia inducible factor 1α (HIF-1α) inhibitor. It binds to DNA via bifunctional intercalation, blocking the interaction of HIF-1α.[1] Protects mice against relapsed acute myeloid leukemia with no effect on hematopoietic stem cells.[2] Selectively eliminates cancer stem cells in mouse lymphoma and human AML xenogeneic models.[3] A very useful tool for probing genes regulated by HIF1α.[4]

1) Kong *et al*. (2005), *Echinomycin, a small-molecule inhibitor of hypoxia-inducible factor-1 DNA-binding activity*; Cancer Res., **65** 9047
2) Wang *et al*. (2014), *Echinomycin protects mice against relapsed acute myeloid leukemia without adverse effect on hematopoietic stem cells*; Blood, **124** 1127
3) Wang *et al*. (2011), *Targeting HIF1α eliminates cancer stem cells in hematological malignancies*; Cell Stem Cell., **8** 399
4) Li *et al*. (2015), *Hypoxia-inducible factor-1α regulates the expression of L-type voltage-dependent Ca(2+) channels in PC12 cells under hypoxia*; Cell Stress Chaperones, **20** 507

PHYSICAL DATA

Molecular Weight:	1101.26
Molecular Formula:	$C_{51}H_{64}N_{12}O_{12}S_2$
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml)
Physical Description:	White to beige solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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