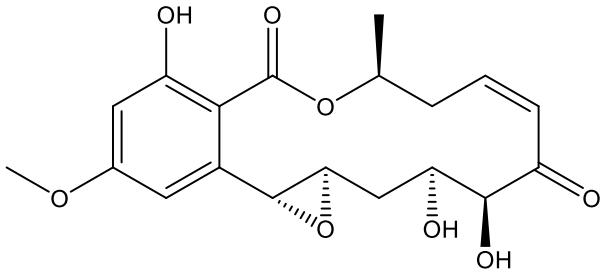
Catalog # 10-2483

Hypothemycin

CAS# 76958-67-3

Natural product isolated from *Phoma sp.*

Lot # X106971



Potent and selective inhibitor of MEK.[1-3] Acts via covalent binding to Cys residue.[2] In cells, hypothemycin inhibits the MEK-ERK axis with sufficient selectivity to normalize transformed phenotypes.[3] Inhibits TNFα production in LPS-stimulated macrophages.[4]

1) Zhou *et al*. (1999), *Resorcylic acid lactones: naturally occurring potent and selective inhibitors of MEK*; J. Antibiot., **52** 1086
2) Schirmer *et al*. (2006), *Targeted covalent inactivation of protein kinases by resorcylic acid lactone polyketides*; Proc. Natl. Acad. Sci. USA, **103** 4234
3) Fukazawa *et al*. (2010), *The resorcylic acid lactone hypothemycin selectively inhibits the mitogen-activated protein kinase kinase-extracellular signal-regulated kinase pathway in cells*; Biol. Pharm. Bull., **33** 168
4) Park *et al*. (2015), *Hypothemycin inhibits tumor necrosis factor-α production by tristetraprolin-dependent down-regulation of mRNA stability in lipopolysaccharide-stimulated macrophages*; Int. Immunopharmacol., **29** 863

PHYSICAL DATA

Molecular Weight:	378.37
Molecular Formula:	$C_{19}H_{22}O_8$
Purity:	>96% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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