Novobiocin . sodium salt

HSP90 inhibitor

Antibiotic. Inhibitor of HSP90. Interacts with the C-terminal ATP-binding domain of HSP90 in contrast to the benzoquinone ansamycins 17-AAG (Prod. No. BML-EI308), geldanamycin (Prod. No. BML-EI280), herbimycin A (Prod. No. BML-EI227) and the chemically unrelated radicicol (Prod. No. BML-EI285), which bind to the N-terminal ATP-binding site of HSP90. Inhibitor of DNA gyrase. Useful for the production of positively supercoiled plasma DNA, targeting the nucleotide-binding site of gyrase B. Inhibits retrovirus RNA-dependent DNA polymerase. Potent inhibitor of ADP ribosylation. Inhibits LPS-induced production of pro-inflammatory cytokines, such as TNF-α, IL-1, IL-6 and IL-10. Inhibits protein synthesis and alters the phosphorylation state of several cytosolic proteins. Reverses etoposide resistance in non-P-glycoprotein expressing multidrug resistant (MDR) tumor cell lines. Inducer of CD38 on cells of the myelomonocytic lineage. Forms ion channels in lipid bilayers. Inhibitor of breast cancer resistance protein (BCRP)

Citations: 29 View Online »

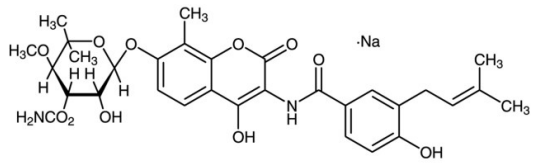
Ordering Information

Order Online »

BML-A256-0001	1g
BML-A256-0005	5g

Manuals, SDS & CofA

View Online »


H3C
H3CO
CH3
O
O
H H
H
H
H2NCO2
OH
CH3
O
O
O
·Na
N
H
OH
CH3
CH3
OH

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	+4°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Activity	~900 µg/mg
Alternative Name	Albamycin, Streptonivicin, N-[7-[[3-O-Aminocarbonyl-6-deoxy-5-C-methyl-4-O-β-L-lyxo-hexapyranosyl]oxy]-4-hydroxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl]-4-hydroxy-3-(3-methyl-2-butenyl)benzamide
Appearance	White to off-white powder.
CAS	1476-53-5
Couple Target	HSP90
Couple Type	Inhibitor
Excitation Maximum	307nm
Formula	$C_{31}H_{35}N_2O_{11}$. Na
MI	**14:** 6722
MW	634.6
RTECS	RD5425000
Solubility	Soluble in water (100mg/ml), ethanol or DMSO.

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