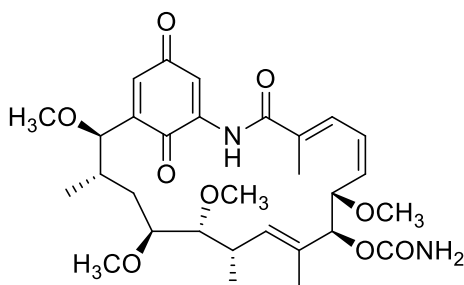


Herbimycin A

Code No.: **BIA-H1036**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : Herbimycin, TAN 420F

Specifications

CAS #	: 70563-58-5
Molecular Formula	: C₃₀H₄₂N₂O₉
Molecular Weight	: 574.7
Source	: <i>Streptomyces</i> sp.
Appearance	: Yellow Lyophilisate
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Herbimycin A is the major analogue of a complex of benzoquinone ansamycin antibiotics isolated from a *Streptomyces hygroscopicus*. Herbimycin A inhibits the 90-kDa heat-shock protein (Hsp90) which provides essential chaperone support to various signal transduction molecules, including certain steroid hormone receptors and select kinases. Herbimycin also inhibits protein tyrosine kinase and angiogenesis.

References

1. Natural product origins of Hsp90 inhibitors. Uehara Y. *Curr. Cancer Drug Targets* 2003, 3, 325.
2. Effects of geldanamycin, a heat-shock protein 90-binding agent, on T cell function and T cell nonreceptor protein tyrosine kinases. Yorgin P.D. et al., *J. Immunol.* 2000, 164, 291.