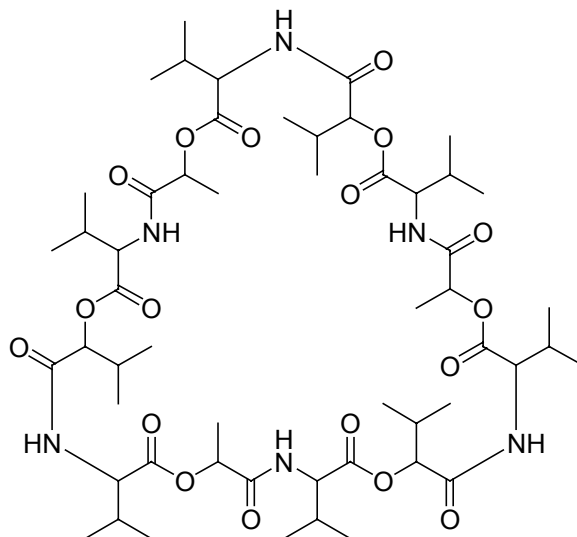


Valinomycin

Code: **BIA-V1114**

Pack sizes: **100 mg, 500 mg**



Synonyms :

Specifications

CAS # : **2001-95-8**
Molecular Formula : **C₅₄H₉₀N₆O₁₈**
Molecular Weight : **1111.3**
Source : **Streptomyces sp. MST-AS5953**
Appearance : **White solid**
Purity : **> 95% by HPLC**
Long Term Storage : **4°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Valinomycin is a hydrophobic cyclodepsipeptide with potent antitumor activity. Valinomycin is a highly selective potassium ionophore and this action leads to a diverse range of profound cell membrane effects. More recently, valinomycin has found application in biosensors.

References

1. K⁺-selective nanospheres: maximising response range and minimising response time. Ruedas-Rama M.J. & Hall E.A. *Analyst*. **2006**, 131, 1282.
2. Potentiometric combination ion/carbon dioxide sensors for *in vitro* and *in vivo* blood measurements. Collison M.E. et al. *Anal. Chem.* **1989**, 61, 2365.