Valinomycin

**Specifications**

- **CAS #**: 2001-95-8
- **Molecular Formula**: C_{54}H_{90}N_{6}O_{18}
- **Molecular Weight**: 1111.3
- **Source**: *Streptomyces* sp.
- **Appearance**: White powder
- **Purity**: >95% by HPLC
- **Long Term Storage**: -20°C
- **Solubility**: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

**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 as a biosensor to detect potassium efflux.

**References**