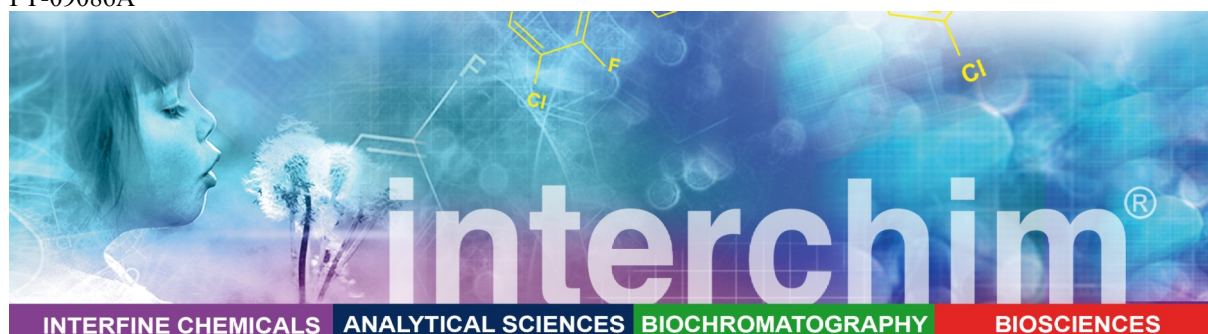


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INTERFINE CHEMICALS

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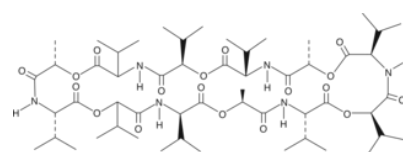
BIOSCIENCES

## Valinomycin

Used for chromosome banding studies

### Product Description

|                           |   |
|---------------------------|---|
| <b>Name :</b>             | <b>Valinomycin</b>  |
| <b>Formal Name</b>        | 3,6,9,15,18,21,27,30,33-Nonaisopropyl-12,24,36-trimethyl-1,7,13,19,25,31-hexaoxa-4,10,16,22,28,34-hexaaza-cyclohexatriacontane-2,5,8,11,14,17,20,23,26,29,32,35-dodecaone |
| <b>Synonym</b>            | NSC122033   |
| <b>CAS number</b>         | 2001-95-8   |
| <b>Catalog Number :</b>   | FP-09246B 25 mg   |
| <b>Molecular Weight :</b> | MW= 1,111.3<br>C <sub>54</sub> H <sub>90</sub> N <sub>6</sub> O <sub>18</sub>   |
| <b>Purity</b>             | >95%  |
| <b>Stability</b>          | 2 years at -20°C  |
| <b>Solubility:</b>        | DMSO, EtOH, CH <sub>3</sub> OH  |



**Storage:** -20°C. Protect from light and moisture

**Valinomycin** is a cyclododecadepsipeptide potassium-selective ionophore antibiotic that is isolated from various strains of *Streptomyces*. The hydrophilic interior is the right size to accommodate the potassium ion, but not other ions, while the hydrophobic exterior allows the complex to pass through the lipid bilayer. Valinomycin induces apoptosis in several cell types, including CHO cells, by stimulating potassium efflux. Apoptotic events produced by valinomycin include phosphatidylserine membrane translocation, caspase-3 activation, and mitochondrial membrane depolarization. Due to the ion-selective nature of valinomycin, it is used in ion-selective electrodes.

### References

- 1- Abdalah, R., Wei, L., Francis, K., et al. Valinomycin-induced apoptosis in Chinese hamster ovary cells. *Neurosci Lett* 405 68-73 (2006).
- 2- Turchan, J., Pocernich, C.B., Gairola, C., et al. Oxidative stress in HIV demented patients and protection ex vivo with novel antioxidants. *Neurology* 60 307-314 (2003).

### Ordering information

[Catalog size quantities and prices may be found at www.interchim.com/](http://www.interchim.com/)

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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