

## Valinomycin, Potassium ionophore

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Catalog	Unit
TBI2112-10MG	10 mg
TBI2112-50MG	50 mg

### Product Details

**Formal Name:** Cyclo(L-Val-D-HyIva-D-Val-L-Lac-)3

**Molecular Formula:** C<sub>54</sub>H<sub>90</sub>N<sub>6</sub>O<sub>18</sub>

**Formula Weight:** 1111.35

**CAS Number:** 2001-95-8

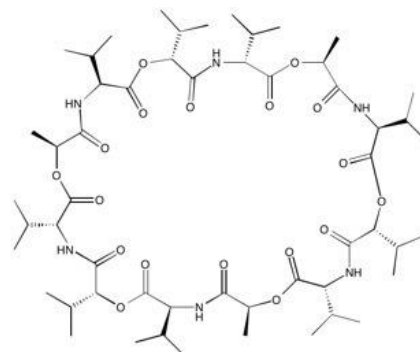
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 10 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Potassium ionophore

### Functions

Valinomycin is a selective K<sup>+</sup> ionophore capable of transporting potassium ions through lipid membranes. It can induce apoptosis in cells by causing a rapid loss of mitochondrial membrane potential via potassium efflux.

### Application Procedures

First dissolved in DMSO (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**