

<b>Product Name:</b>	Dinactin
<b>Product Number:</b>	D057
<b>CAS Number:</b>	20261-85-2
<b>Molecular Formula:</b>	C <sub>42</sub> H <sub>68</sub> O <sub>12</sub>
<b>Molecular Weight:</b>	765.0
<b>Appearance:</b>	Colourless Film
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Dinactin is a member of the macrotetrolide complex produced by a range of <i>Streptomyces</i> species. It is a monovalent cation ionophore with high selectivity for ammonium and potassium. Dinactin inhibits T-cell proliferation induced by IL-2 and cytokine production at nanomolar levels for IL-2, IL-4, IL-5 and interferon-γ. Dinactin has not previously been available for intensive investigation.</p>
<b>Mechanism of Action:</b>	<p>Dinactin is soluble in ethanol, methanol, DMF and DMSO.</p> <p>Dinactin inhibits T-cell proliferation induced by IL-2 and cytokine production at nanomolar levels for IL-2, IL-4, IL-5 and interferon-γ.</p>
<b>References:</b>	<p>Effects of cyclosporin A and dinactin on T-cell proliferation, interleukin-5 production, and murine pulmonary inflammation. Umland S.P. et al. , Am. J. Respir. Cell Mol. Biol., 1999, 20, 481.</p> <p>Immunosuppressive effects of polynactins (tetranactin, trinactin and dinactin) on experimental autoimmune uveoretinitis in rats. Tanouchi Y. et al. , Jpn. J. Ophthalmol., 1987, 31, 218.</p> <p>Antibiotics as tools for metabolic studies. VI. Damped oscillatory swelling of mitochondria induced by nonactin, monactin, dinactin, and trinactin. Graven S.N., et al. , Biochemistry, 1966, 5, 1735.</p>