

Product Name:	Nonactin
Product Number:	N032
CAS Number:	6833-84-7
Molecular Formula:	$C_{40}H_{64}O_{12}$
Molecular Weight:	736.9
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Nonactin is the smallest member of the macrotetrolide complex produced by a range of <i>Streptomyces</i> species. Originally the name, nonactin, reflected the lack of biological activity. The literature is confusing in this respect, as virtually all sources of nonactin are contaminated with small amounts of the much more active monactin. Nonactin has been purified to remove traces of other biologically-active macrotetrolides. Like the other macrotetrolides, nonactin is a monovalent cation ionophore with high selectivity for ammonium and potassium.</p> <p>Nonactin is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
References:	<p>Über Untersuchungen, welche zur Bestimmung der Konfiguration der Nonactinsäure und der Homononactinsäure ausgeführt wurden, werden wir in einer späteren Mitteilung berichten. Dominguez J. et al. <i>Helv. Chim. Acta</i> 1962, 45, 129.</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. <i>Biochemistry</i>, 1966, 5, 1735.</p>