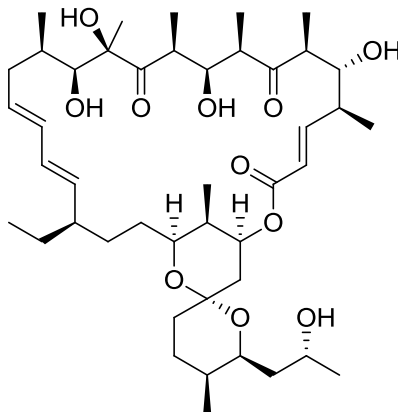


## Oligomycin D

Code No.: **BIA-O1438**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : Rutamycin, 26-demethyloligomycin A, A 272, RR 32705, Rutamycin A

## Specifications

CAS #	: 1404-59-7
Molecular Formula	: C <sub>44</sub> H <sub>72</sub> O <sub>11</sub>
Molecular Weight	: 777.0
Source	: <i>Streptomyces</i> sp.
Appearance	: White Lyophilisate
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

## Application Notes

Oligomycin D (rutamycin) is macrocyclic lactone belonging to the oligomycin class but identified from different species of *Streptomyces* in 1961. Like oligomycin A, oligomycin D inhibits mitochondrial F1F0-ATPase and is an important bioprobe to study the organisation of ATPase on the mitochondrial membrane. Oligomycin D exhibits a broad biological profile including antifungal, antitumor and nematocidal activities.

## References

1. Antifungal antibiotic rutamycin and process for the production thereof. Thompson R.Q. US Patent 3,310,468, 1967.
2. Assembly of the mitochondrial system. Purification of a mitochondrial product of the ATPase. Sierra M.F. & Tzagoloff A. Proc. Natl. Acad. Sci. U.S.A. 1973, 70, 3155.