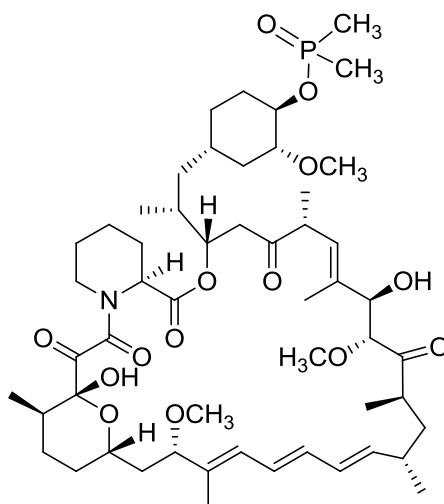


Ridaforolimus

Code No.: **BIA-R1450**

Pack sizes: **1 mg, 5 mg**



Synonyms : AP 23573, MK 8669, 42-Dimethylphosphinate-rapamycin

Specifications

CAS #	: 572924-54-0
Molecular Formula	: C ₅₃ H ₈₄ NO ₁₄ P
Molecular Weight	: 990.2
Source	: <i>Streptomyces hygroscopicus</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Ridaforolimus is a semisynthetic macrocyclic lactone prepared from rapamycin by selective alkylation of the 42-hydroxy group with a dimethylphosphinate moiety. Like all tacrolimus analogues, ridaforolimus binds to receptor protein, FKBP12. The complex then binds to mTOR preventing its interaction with target proteins. Ridaforolimus is extensively cited in the literature with over 70 citations.

References

1. Phosphorus-containing compounds and uses thereof. Metcalf C.A. et al., US Patent 7,091,213, 2006.
2. Targeting the mTOR pathway using deforolimus in cancer therapy. Mahalingam D. et al., Future Oncol. 2009, 5, 291.