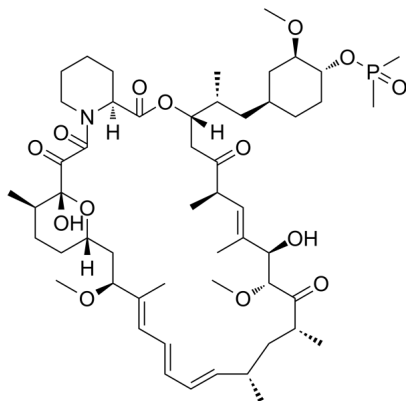


Certificate of Analysis

| | |
|----------------|---------------|
| Catalog Number | BP12749 |
| Product Name | Ridaforolimus |

Physical and Chemical Properties

| | |
|--|--|
| Synonyms | MK-8669, Deforolimus, AP23573 |
| CAS No. | 572924-54-0 |
| Chemical Formula | C ₅₃ H ₈₄ NO ₁₄ P |
| Molecular Weight | 990.222 |
| Solubility | DMSO: 182 mg/mL (183.8 mM) H ₂ O: <1 mg/mL; Ethanol: <1 mg/mL |
| Storage | Powder: -20°C for 2 years In solvent: -80°C for 1 year |
| Chemical Structure OR Tested Image |  |

Product Information

| | |
|--------------|--|
| Description | Ridaforolimus is a small molecule and non-prodrug analogue of the lipophilic macrolide antibiotic rapamycin with potential antitumor activity. Ridaforolimus binds to and inhibits the mammalian target of rapamycin (mTOR), which may result in cell cycle arrest and, consequently, the inhibition of tumor cell growth and proliferation. Upregulated in some tumors, mTOR is a serine/threonine kinase involved in regulating cellular proliferation, motility, and survival that is located downstream of the PI3K/Akt signaling pathway. |
| Targets&IC50 | mTOR (HT-1080 cells):0.2 nM |

Analytical Data

| | |
|---------------------------------|--|
| HPLC | Shows Min >99% purity |
| H-NMR | Consistent with structure |
| Stability and Solubility Advice | Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details. |

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