

| | |
|-----------------------------|--|
| Product Name: | Ridaforolimus |
| Product Number: | R032 |
| CAS Number: | 572924-54-0 |
| Molecular Formula: | $C_{53}H_{84}NO_{14}P$ |
| Molecular Weight: | 990.2 |
| Appearance: | White solid |
| Storage Conditions: | -20°C |
| Description: | <p>Ridaforolimus is a semisynthetic macrocyclic lactone prepared from rapamycin by selective alkylation of the 42-hydroxy group with a dimethylphosphinate moiety. Ridaforolimus is extensively cited in the literature with over 70 citations.</p> <p>Ridaforolimus is soluble in ethanol, methanol, DMF or DMSO.</p> |
| Mechanism of Action: | <p>Ridaforolimus binds to receptor protein, FKBP12. This complex then binds to mTOR preventing its interaction with target proteins.</p> |
| References: | <p>Phosphorus-containing compounds and uses thereof. Metcalf C.A. et al. US Patent 7,091,213, 2006.</p> <p>Targeting the mTOR pathway using deforolimus in cancer therapy. Mahalingam D. et al. Future Oncol. 2009, 5, 291.</p> |