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## Product Data Sheet

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Product Name: 42-(2-Tetrazoly)rapamycin

Cat. No.: GC33399

### Chemical Properties

Cas. No. 221877-56-1

SMILES [H][C@]1(C(O[C@@]([C@@H](C[C@H]2C[C@@H](OC)[C@@H](N3N=CN=N3)CC2)C)([H])CC([C@@H])(/C=C([C@@H](O)[C@H]4OC)\C)C)=O)=O)N(C(C([C@@]5(O)[C@H](C)CC[C@](C[C@@H])(/C(C)=C/C=C/C=C/[C@@H](C)C[C@@H](C)C4=O)OC)([H])O5)=O)=O)CCCC1

Formula C<sub>52</sub>H<sub>79</sub>N<sub>5</sub>O<sub>12</sub>

M.Wt 966.21

Solubility DMSO : ≥ 130 mg/mL (134.55 mM)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure 

### Background

42-(2-Tetrazoly)rapamycin is a prodrug compound of a rapamycin analog extracted from patent US 20080171763 A1, Example 1. Rapamycin is a specific mTOR inhibitor.

[1]. Karl W. Mollison, et al. Compounds and methods for treatment and prevention of diseases. US 20080171763 A1. [2]. Ballou LM, et al. Rapamycin and mTOR kinase inhibitors. J Chem Biol. 2008 Nov;1(1-4):27-36.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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