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**Product Data Sheet**


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Product Name: DL001  
 Cat. No.: GC35874

**Chemical Properties**

Cas. No. 909387-87-7

SMILES O[C@@H]1CC[C@@H](C[C@@H](C)[C@H](CC([C@H](C)/C=C(C)/[C@@H](O)[C@H]2O)=O)OC([C@@H]3CCCCN3C(C([C@]4(O)O[C@H](C[C@H](OC)/C(C)=C/C=C/C=C/[C@@H](C)C[C@@H](C)C2=O)CC[C@H]4C)=O)=O)=O)CC1

Formula C<sub>49</sub>H<sub>75</sub>NO<sub>12</sub> M.Wt 870.12

Solubility Soluble in DMSO 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**

DL001, a FKBP12-dependent rapamycin analog, is a selective mechanistic Target Of Rapamycin Complex 1 (mTORC1) inhibitor with an IC<sub>50</sub> of 74.9 pM. In cells, DL001 efficiently represses elevated mTORC1 activity and restores normal gene expression to cells lacking a functional tuberous sclerosis complex. DL001 inhibits mTORC1 signaling without impairing glucose homeostasis and with substantially reduced and no side effects on lipid metabolism and the immune system in vivo in C57BL/6J mice[1].  
 mTORC1|74.9 pM (IC<sub>50</sub>)

[1]. Schreiber KH , et al. A novel rapamycin analog is highly selective for mTORC1 in vivo. Nat Commun. 2019 Jul 19;10(1):3194.

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

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