

Product Data Sheet

Product Name: Umirolimus

Cat. No.: GC45114

Chemical Properties

Cas. No. 851536-75-9

SMILES O=C([C@]1([H])CCCCN1C(C([C@@]2(O)[C@H](C)CC[C@](C[C@H](OC)/C(C)=C/C=C/C/C=C/[C@H](C3)C)([H])O2)=O)=O)O[C@](CC([C@H](C)/C=C(C)/[C@@H](O)[C@@H](OC)C([C@@H]3C)=O)=O)([H])[C@H](C)C[C@@H]4CC[C@@H](OCCOCC)[C@H](OC)C4

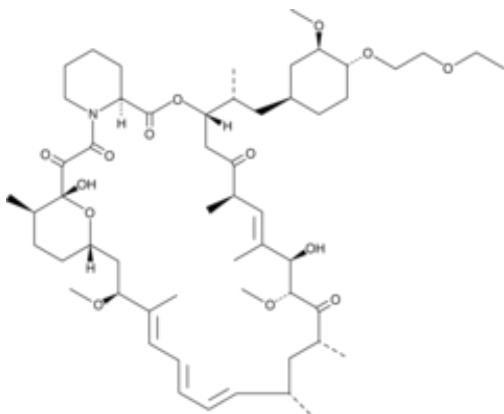
Formula C₅₅H₈₇NO₁₄ M.Wt 986.3

Solubility DMSO : 100 mg/mL (101.39 mM; Need ultrasonic) 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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Umirolimus is a semi-synthetic macrocyclic lactone and a derivative of rapamycin that has immunosuppressive and anti-inflammatory effects. It halts the cell cycle at the G1 phase through an IL-2/mTOR-mediated pathway and inhibits proliferation of human smooth muscle cells. In a porcine overstretch model, coronary stents containing umirolimus for localized delivery to the vessel wall reduced stenosis by 50% and led to less thickening of the vessel wall than a bare metal stent. Rapamycin, and likely its derivatives, binds to the cytosolic FK-binding protein 12 (FKBP12) to inhibit the mammalian target of rapamycin (mTOR) pathway. Formulations containing umirolimus have been used in coronary stents for localized delivery to the vessel wall.

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