

Product Data Sheet

Product Name: Umirolimus-d 5

Cat. No.: GC79858

Chemical Properties

Cas. No.

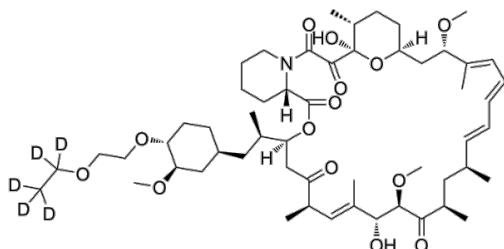
Formula $C_{55}H_{82}D_5NO_{14}$ M.Wt 991.31

Solubility DMSO: 100 mg/mL (100.88 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



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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Background

Umirolimus -d 5 is the deuterium labeled Umirolimus. Umirolimus, a macrocyclic triene lactone Rapamycin derivative, is powerful immunosuppressant and anti-inflammatory agent. Umirolimus has highly lipophilicity and can be used agent-eluting stent (DES) applications [1].

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:

[1]. Eberhard Grube, et al. BioMatrix Biolimus A9-eluting coronary stent: a next-generation drug-eluting stent for coronary artery disease. Expert Rev Med Devices. 2006 Nov;3(6):731-41.

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