

Product Data Sheet

Product Name: Maresin 2-d5

Cat. No.: GC47599

Chemical Properties

Cas. No. 1639809-46-3

SMILES O[C@@H](C/C=C\C/C=C\C([2H])([2H])C([2H])([2H])[2H])[C@H](O)/C=C/C=C/C=C\C/C=C\C([2H])([2H])C([2H])([2H])[2H][C@H](O)/C=C/C=C/C=C\C/C=C\C([2H])([2H])C([2H])([2H])[2H]

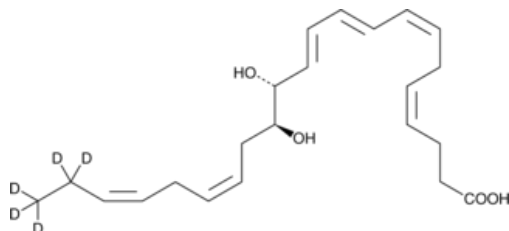
Formula C₂₂H₂₇D₅O₄ M.Wt 365.5

Solubility DMF: 50 mg/ml, DMSO: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 0.05 mg/ml
Storage Store at -80°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

Maresin 2-d₅ (MaR2-d₅) contains 5 deuterium atoms at the 21, 21, 22, 22, and 22 positions. It is intended for use as an internal standard for the quantification of MaR2 by GC- or LC-MS. MaR2 is a 13R,14S-dihydroxy DHA formed by recombinant human macrophage 12-lipoxygenase and soluble epoxide hydrolase co-incubated with DHA.¹ At 1 ng/mouse, MaR2 was shown to reduce neutrophil infiltration by 40% in a mouse model of peritonitis, and at 10 pM, MaR2 can enhance human macrophage phagocytosis of zymosan A by 90%.¹

1. Deng, B., Wang, C.W., Arnardottir, H.H., et al. Maresin biosynthesis and identification of maresin 2, a new anti-inflammatory and pro-resolving mediator from human macrophages. *PLoS One* 9(7)(2014)

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

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