

Product Data Sheet

Product Name: Resolvin D1 methyl ester

Cat. No.: GC41230

Chemical Properties

Cas. No. 937738-63-1

SMILES CC/C=C\C[C@H](O)/C=C/C=C\C=C\C=C\C[C@@H](O)[C@@H](O)C/C=C\CCC(OC)=O

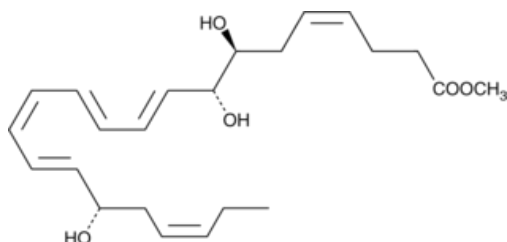
Formula C23H34O5 M.Wt 390.5

Solubility DMF: 50 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 0.05 mg/ml
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

Resolvin D1 is produced physiologically from the sequential oxygenation of docosahexaenoic acid by 15- and 5-lipoxygenase. It reduces human polymorphonuclear leukocyte transendothelial migration, the earliest event in acute inflammation, with an EC50 value of ~30 nM. RvD1 methyl ester is a methyl ester version of the free acid that may act as a lipophilic prodrug form that will alter its distribution and pharmacokinetic properties. The methyl ester moiety is susceptible to cleavage by intracellular esterases, leaving the free acid.

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

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