

Product Datasheet

Resolvin D5 (orb1984950)

Description

Resolvins are a family of potent lipid mediators derived from both eicosapentaenoic acid and docosahexaenoic acid . [1] In addition to being anti-inflammatory, resolvins promote the resolution of the inflammatory response back to a non-inflamed state.[2] Resolvin D5 (RvD5) is a DHA-derived resolvin generated by a double dioxygenation mechanism.[3] RvD5 has been identified in media from ionophore-stimulated trout brain cells, in human synovial fluid from patients with rheumatoid arthritis, and in exudates of bacterial infections in mice. [4][5][6] RvD5 stimulates the phagocytosis of E. coli by human macrophages, and RvD5 methyl ester enhances bacterial killing in mice inoculated with E. coli. [6] Analytical and biological comparisons of synthetic RvD5 with endogenously derived RvD5 have confirmed its identity as matching the natural product.[7]

Storage

-20°C

Note

For research use only

Formula

$C_{22}H_{32}O_4$

Purity

98.00%

MW

360.494

CAS Number

578008-43-2

SMILES

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

Expiration Date

12 months from date of receipt.

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