

Product Data Sheet

Product Name: Resolvin D4

Cat. No.: GC44818

Chemical Properties

Cas. No. 1025684-60-9

Chemical Name 4S,5,17S-trihydroxy-6E,8E,10E,13E,15Z,19Z-docosahexaenoic acid

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

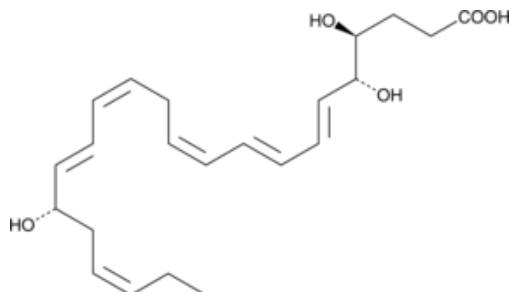
Formula C₂₂H₃₂O₅ M.Wt 376.5

Solubility 50 mg/ml in DMF, 50 mg/ml Ethanol 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 D4 (RvD4) is a specialized pro-resolving mediator derived from docosahexaenoic acid. [1] It has been detected in human milk, in the dorsal pouch of mice before and after infection with *S. aureus*, and in untreated tissues from humans, mice, and sardines. [2][3] RvD4, at 10 ng/mouse, reduces neutrophil infiltration in zymosan A-induced peritonitis and, at 200 ng/mouse, diminishes neutrophil infiltration in response to *S. aureus* infection. [3] With isolated cells, RvD4 promotes phagocytosis of bacteria, opsonized zymosan A, and apoptotic neutrophils by human macrophages. [3] It also promotes the clearance of apoptotic neutrophils by human fibroblasts. [3]

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

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Reference:

- [1]. Serhan, C.N., and Savill, J. Resolution of inflammation: The beginning programs the end. *Nature Immunology* 6(12), 1191-1197 (2005).
- [2]. Arnardottir, H., Orr, S.K., Dalli, J., et al. Human milk proresolving mediators stimulate resolution of acute inflammation. *Mucosal. Immunol.* 9(3), 757-766 (2016).
- [3]. Winkler, J.W., Orr, S.K., Dalli, J., et al. Resolvin D4 stereoassignment and its novel actions in host protection and bacterial clearance. *Sci.Rep.* 6, (2016).

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