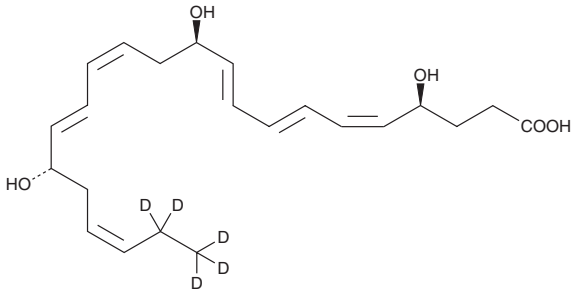
PRODUCT INFORMATION

Resolvin D3-d_5

Item No. 19512

Formal Name: 4S,11R,17S-trihydroxydocosa-5Z,7E,9E,13Z,15E,19Z-hexaenoic-21,21,22,22,22-d_5 acid
Synonym: RVD3-d_5
MF: $C_{22}H_{27}D_5O_5$
FW: 381.5
Chemical Purity: ≥98% (Resolvin D3)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_5); ≤1% d_0
UV/Vis.: λ_{max}: 240, 262, 273, 283 nm
Supplied as: A solution in ethanol
Storage: -80°C
Stability: ≥1 year



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Resolvin D3-d_5 (RVD3-d_5) is intended for use as an internal standard for the quantification of RVD3 (Item No. 13834) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

RVD3-d_5 is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. It is recommended that this product be stored and handled in an ethanol solution. Resolvins can isomerize and degrade when put into freeze thaw conditions and/or in solvents such as dimethyl formamide or DMSO.

Description

RVD3 is a DHA-derived product first identified in mouse inflammatory exudates.[1] It reduces neutrophil infiltration *in vivo* in both mouse peritonitis and dermal inflammation. In addition to suppressing leukocyte migration, RVD3 enhances macrophage phagocytosis and efferocytosis.[2] Unlike other resolvins, RVD3 appears late in resolution in mouse peritonitis.[2,3]

References

1. Serhan, C.N., Hong, S., Gronert, K., *et al. J. Exp. Med.* **196(8)**,1025-1037 (2002).
2. Dalli, J., Winkler, J.W., Colas, R.A., *et al. Chem. Biol.* **20(2)**, 188-201 (2015).
3. Serhan, C.N. *Nature* **510(7503)**, 92-101 (2014).

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