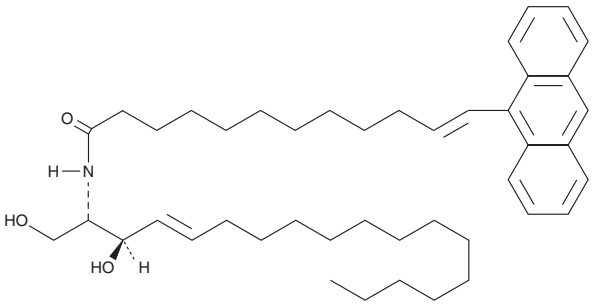
PRODUCT INFORMATION

C10 AV Ceramide (d18:1/10:0)

Item No. 9000753

CAS Registry No.:	1263052-40-9
Formal Name:	(11E)-12-(9-anthracenyl)-N-[(1S,2R,3E)-2-hydroxy-1-(hydroxymethyl)-3-heptadecen-1-yl]-11-dodecenamide
Synonyms:	Anthrylvinyl Ceramide, AV Ceramide, AV Ceramide (d18:1/10:0), AV Cer(d18:1/10:0)
MF:	$C_{44}H_{65}NO_3$
FW:	656.0
Purity:	≥98%
UV/Vis.:	λ_{max}: 256 nm
Supplied as:	A 10 mg/ml solution in ethanol
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

C10 AV Ceramide (d18:1/10:0) 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. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of C10 AV ceramide (d18:1/10:0) in these solvents is approximately 10 mg/ml.

Description

AV-Ceramide is a fluorescently tagged probe consisting of C-10 ceramide with an anthrylvinyl (AV) group attached to the end of the acyl chain. The AV group, being relatively small and non-polar, readily orients within the central region of a lipid bilayer.[1] The transfer or transport of lipids labeled with AV is commonly evaluated in real time using fluorescence resonance energy transfer, with a second fluorophore.[1-3]

References

1. Polozov, I., Molotkovsky, J.G., and Bergelson, L.D. Anthrylvinyl-labeled phospholipids as membrane probes: The phosphatidylcholine-phosphatidylethanolamine system. *Chem. Phys. Lipids* **69(3)**, 209-218 (1994).
2. Mattijus, P., Molotkovsky, J.G., Smaby, J.M., *et al.* A fluorescence resonance energy transfer approach for monitoring protein-mediated glycolipid transfer between vesicle membranes. *Anal. Biochem.* **268(2)**, 297-304 (1999).
3. Tuuf, J., Kjellberg, M.A., Molotkovsky, J.G., *et al.* The intermediate ceramide transport catalyzed by CERT is sensitive to the lipid environment. *Biochem. Biophys. Acta* **1808(1)**, 229-235 (2011).

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