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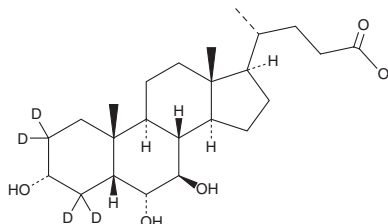
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PRODUCT INFORMATION



ω -Muricholic Acid-d₄ Item No. 27037

Formal Name:	(3 α ,5 β ,6 α ,7 β)-3,6,7-trihydroxy-cholan-24-oic-2,2,4,4-d ₄ acid
Synonym:	ω -MCA-d ₄
MF:	C ₂₄ H ₃₆ D ₄ O ₅
FW:	412.6
Chemical Purity:	≥98% (ω -Muricholic Acid)
Deuterium Incorporation:	≥99% deuterated forms (d ₁ -d ₄); ≤1% d ₀
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

ω -Muricholic Acid-d₄ (ω -MCA-d₄) is intended for use as an internal standard for the quantification of ω -MCA (Item No. 20292) 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).

ω -MCA-d₄ is supplied as a crystalline solid. A stock solution may be made by dissolving the ω -MCA-d₄ in the solvent of choice, which should be purged with an inert gas. ω -MCA-d₄ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of ω -MCA-d₄ in ethanol and DMSO is approximately 20 mg/ml and approximately 30 mg/ml in DMF.

ω -MCA-d₄ is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ω -MCA-d₄ should first be dissolved in DMF and then diluted with the aqueous buffer of choice. ω -MCA-d₄ has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

ω -MCA is a murine-specific secondary bile acid.^{1,2} It is formed *via* enzymatic conversion of β -MCA (Item No. 20287) by a variety of intestinal microorganisms, including *Clostridium*, in rat and mouse gut.

References

1. Eyssen, H., De Pauw, G., Stragier, J., *et al.* Cooperative formation of ω -muricholic acid by intestinal microorganisms. *Appl. Environ. Microbiol.* **45**(1), 141-147 (1983).
2. Sacquet, E.C., Raibaud, P.M., Mejean, C., *et al.* Bacterial formation of ω -muricholic acid in rats. *Appl. Environ. Microbiol.* **37**(6), 1127-1131 (1979).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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