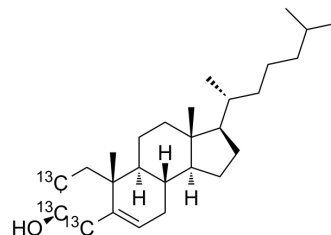


Cholesterol-13C3

Cat. No.:	HY-N0322S4
Molecular Formula:	C ₂₄ ¹³ C ₃ H ₄₁ O
Molecular Weight:	384.59
Target:	Estrogen Receptor/ERR; Endogenous Metabolite
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cholesterol-13C3 is the 13C-labeled Cholesterol. Cholesterol is the major sterol in mammals and is makes up 20-25% of structural component of the plasma membrane. Plasma membranes are highly permeable to water but relatively impermeable to ions and protons. Cholesterol plays an important role in determining the fluidity and permeability characteristics of the membrane as well as the function of both the transporters and signaling proteins ^{[1][2]} . Cholesterol is also an endogenous estrogen-related receptor α (ERRα) agonist ^[3] .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [4]. Dietschy JM, et al. Thematic review series: brain Lipids. Cholesterol metabolism in the central nervous system during early development and in the mature animal. *J Lipid Res.* 2004 Aug;45(8):1375-97.
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- [6]. Dietschy JM, et al. Thematic review series: brain Lipids. Cholesterol metabolism in the central nervous system during early development and in the mature animal. *J Lipid Res.* 2004 Aug;45(8):1375-97.
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Caution: Product has not been fully validated for medical applications. For research use only.

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