

<b>Product Name</b>	: Ursodeoxycholic Acid-d4
<b>Synonyms</b>	: —
<b>Cat No.</b>	: M37724
<b>CAS Number</b>	: 347841-46-7
<b>Molecular Formula</b>	: C <sub>24</sub> H <sub>40</sub> O <sub>4</sub>
<b>Formula Weight</b>	: 396.6
<b>Chemical Name</b>	: —
<b>Description</b>	<p>Ursodeoxycholic acid-2,2,4,4-d4 is the deuterium labeled Ursodeoxycholic acid (HY-13771). Ursodeoxycholic acid is a secondary bile acid issued from the transformation of (cheno)deoxycholic acid by intestinal bacteria, acting as a key regulator of the intestinal barrier integrity and essential for lipid metabolism. Ursodeoxycholic acid acts as signaling molecule, exerting its effects by interacting with bile acid activated receptors, including G-protein coupled bile acid receptor 5 (TGR5, GPCR19) and the farnesoid X receptor (FXR). Ursodeoxycholic acid can be used for the research of a variety of hepatic and gastrointestinal diseases. Ursodeoxycholic acid also reduces ACE2 expression and is beneficial for reducing SARS-CoV-2 infection.</p>
<b>Pathway</b>	: Others
<b>Target</b>	: Other Targets
<b>Receptor</b>	: Others
<b>Solubility</b>	: —
<b>SMILES</b>	<chem>C[C@@]12[C@]([C@]3[C@@]([C@]4[C@](C[C@@H]3O)(C[C@H](O)C(C4)([2H])([2H])([2H])([2H])([H])(CC1)([H])([H])(CC[C@@]2([C@H](CCC(O)=O)C)[H])[H])</chem>
<b>Storage</b>	: (-20°C)
<b>Stability</b>	: ≥ 2 years
<b>Reference</b>	:

1. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216. ?