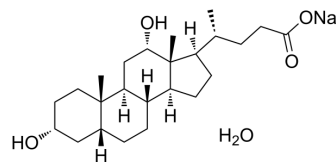


## Deoxycholic acid sodium hydrate

<b>Cat. No.:</b>	HY-N0593B
<b>CAS No.:</b>	145224-92-6
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>41</sub> NaO <sub>5</sub>
<b>Molecular Weight:</b>	432.57
<b>Target:</b>	Endogenous Metabolite; G protein-coupled Bile Acid Receptor 1
<b>Pathway:</b>	Metabolic Enzyme/Protease; GPCR/G Protein
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Deoxycholic acid (cholanoic acid) sodium hydrate, a bile acid, is a by-product of intestinal metabolism, that activates the G protein-coupled bile acid receptor TGR5 <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Microbial Metabolite
<b>In Vitro</b>	Deoxycholic acid sodium hydrate (DCA) (100 μM) induces the production of gastric cancer cell line MGC803 resistant to acidified bile acids and enhances their survival and proliferation activity under bile acid stress <sup>[2]</sup> . Deoxycholic acid sodium hydrate (DCA) (100 μM)-induced resistant cells shows altered morphology, significantly elevated telomerase activity, better cell viability and reduces apoptosis compared to normal MGC803 cells <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Cell Res. 2019 Mar;29(3):193-205.
- Nat Cell Biol. 2018 Oct;20(10):1145-1158.
- Microbiome. 2019 Mar 20;7(1):43.
- Int J Biol Macromol. 2024 May;266(Pt 1):130939.
- Int J Biol Macromol. 2024 Mar 15:130939.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Somm E, et al. β-Klotho deficiency protects against obesity through a crosstalk between liver, microbiota, and brown adipose tissue. JCI Insight. 2017 Apr 20;2(8). pii: 91809.
- [2]. Wang X, et al. Acidified bile acids enhance tumor progression and telomerase activity of gastric cancer in micedependent on c-Myc expression. Cancer Med. 2017 Apr;6(4):788-797.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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