# Certificate of Analysis

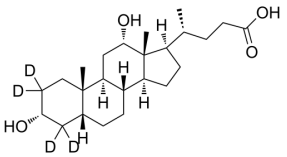
## Deoxycholic acid-$d_4$

| | |
|---|---|
| **Cat. No.:** | HY-N0593S |
| **CAS No.:** | 112076-61-6 |
| **Batch No.:** | 309951 |
| **Chemical Name:** | Cholan-24-oic-2,2,4,4-d4 acid, 3,12-dihydroxy-, (3α,5β,12α)- |

### PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Molecular Formula:** | $C_{24}H_{36}D_4O_4$ | | |
| **Molecular Weight:** | **396.60** | | |
| **Storage:** | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |

**Chemical Structure:**




### ANALYTICAL DATA

| | |
|---|---|
| **Appearance:** | White to off-white (Solid) |
| **$^1$H NMR Spectrum:** | Consistent with structure |
| **MS:** | Consistent with structure |
| **Purity (NMR):** | **≥98.0%** |
| **Isotopic Enrichment:** | 98.1% |
| **Additional Information:** | d4=97.2%,d2=1.7%,d1=0.2%,d0=1.0% |
| **Conclusion:** | The product has been tested and complies with the given specifications. |

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

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