

Product Datasheet

3-sucCA (orb3032931)

Catalog Number	orb3032931
Category	Small Molecules
Description	<p>3-Succinylated cholic acid (3-sucCA) is a microbially derived bile acid that plays a significant role in gut health and metabolic regulation. As a lumen-restricted metabolite, 3-sucCA has been shown to mitigate the progression of metabolic-associated fatty liver disease (MAFLD) to metabolic-associated steatohepatitis (MASH) in mouse models. Its protective effects are primarily attributed to its ability to reshape the gut microbiota, particularly by enhancing the growth of Akkermansia muciniphila, a beneficial bacterium associated with improved metabolic health. Notably, patients with biopsy-confirmed MAFLD exhibit reduced levels of 3-sucCA, underscoring its potential as a biomarker and therapeutic target for managing metabolic liver diseases. This unique metabolite highlights the intricate interplay between gut microbiota and liver health, offering promising avenues for intervention.</p>
Purity	>98%
MW	508.644169807434
CAS Number	94159-47-4
Formula	$C_{28}H_{44}O_8$
SMILES	<chem>CC(CCC(=O)O)C1CCC2C1(C(CC3C2C(CC4C3(CCC(C4)OC(=O)CCC(=O)O)C)O)O)C</chem>
Note	For research use only
Expiration Date	12 months from date of receipt.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713
United States

Email: info@biorbyt.com, support@biorbyt.com

Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)