

Product Datasheet

Topoisomerase IV inhibitor 1 (orb1745094)

Catalog Number	orb1745094
Category	Small Molecules
Description	Compound 7d is a dual-targeting antibacterial agent that potently inhibits both DNA topoisomerase IV (IC ₅₀ = 0.23 μM) and DNA gyrase. It demonstrates in vitro efficacy against Staphylococcus aureus and Escherichia coli, making it a valuable tool for researching novel antibiotics and bacterial enzyme mechanisms.
Target	Antibacterial, Topoisomerase
MW	685.72
CAS Number	2883403-42-5
Formula	C ₃₄ H ₃₂ FN ₇ O ₆ S
SMILES	<chem>C1CC1N2C=C(C(=O)C3=CC(=C(C=C3)N4CCN(CC4)CCC(=O)NC5=CC=C(C=C5)S(=O)(=O)NC6=NC7=CC=CC=C7N=C6)F)C(=O)O</chem>
Storage	-20°C
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 27713-2847
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)