

Product Datasheet

SABA1 (orb3032918)

Catalog Number	orb3032918
Category	Small Molecules
Description	<p>SABA1 is an antibacterial agent effective against <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i>. It works by inhibiting biotin carboxylase (BC), an enzyme that catalyzes the first step of the acetyl-CoA carboxylase (ACC) reaction, a process essential for bacterial fatty acid synthesis. What makes SABA1 particularly notable is its atypical inhibition mechanism: it binds to the biotin binding site of BC in the presence of ADP. This unique mode of action distinguishes SABA1 as a promising candidate for the development of new antibiotics, offering a potential solution to the growing challenge of antimicrobial resistance.</p>
Purity	0.98
MW	458.91
CAS Number	690681-65-3
Formula	C ₂₂ H ₁₉ ClN ₂ O ₅ S
SMILES	<chem>CCOC(C1=CC=C(C=C1)NS(=O)(C2=CC(C(NC3=CC=CC=C3)=O)=CC=C2Cl)=O)=O</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 27713-2847
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)