

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

Borrelidin

Product overview

Name	Borrelidin
Cat No	HB3810
Purity	>98%
Description	Antibiotic. Threonyl-tRNA synthetase (THrRS) inhibitor.

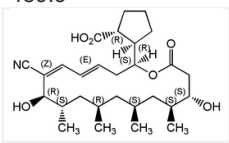
Biological Data

Biological description	Antibiotic. Threonyl-tRNA synthetase (THrRS) inhibitor. Cyclin-dependent kinase (CDK) inhibitor. Induces the collapse of formed capillary tubes in a dose-dependent fashion. In HUVECs, the capillary tube collapsing activity is mediated by the activation of caspases-3 and -8 and apoptosis induction. Shows anticancer, antiangiogenic and antiviral activity.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(1R,2R)-2-[(2S,4E,6Z,8R,9S,11R,13S,15S,16S)-7-Cyano-8,16-dihydroxy-9,11,13,15-tetramethyl-18-oxooxacyclooctadeca-4,6-dien-2-yl]cyclopentanecarboxylic acid
Molecular Weight	489.6
Chemical structure	
Molecular Formula	C ₂₈ H ₄₃ NO ₆
CAS Number	7184-60-3
PubChem identifier	6436801
SMILES	<chem>O[C@@H](C1)[C@@H](C)C[C@@H](C)C[C@@H](C)C[C@H](C)[C@@H](O)C(C#N)=C/C=C/C[C@]([C@]2([H])CCC[C@H]2C(O)=O)([H])OC1=O</chem>
Source	Streptomyces sp.
InChi	InChI=1S/C28H43NO6/c1-17-12-18(2)14-20(4)27(32)21(16-29)8-5-6-11-25(22-9-7-10-23(22)28(33)34)35-26(31)15-24(30)19(3)13-17/h5-6,8,17-20,22-25,27,30,32H,7,9-15H2,1-4H3,(H,33,34)/b6-5+,-2-1-8-/t17-,18+,19-,20-,22+,23+,24-,25-,27+/m0/s1
InChiKey	OJCKRNPLOZHAOU-TVHKGLGPSA-N
MDL number	MFCD01740784
Appearance	White to off-white powder