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# DATASHEET

Borrelidin

## Product overview

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

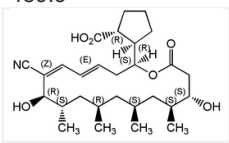
## Biological Data

<b>Biological description</b>	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

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

## Chemical Data

<b>Chemical name</b>	(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
<b>Molecular Weight</b>	489.6
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>28</sub> H <sub>43</sub> NO <sub>6</sub>
<b>CAS Number</b>	7184-60-3
<b>PubChem identifier</b>	6436801
<b>SMILES</b>	<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>
<b>Source</b>	Streptomyces sp.
<b>InChi</b>	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
<b>InChiKey</b>	OJCKRNPLOZHAOU-TVHKGLGPSA-N
<b>MDL number</b>	MFCD01740784
<b>Appearance</b>	White to off-white powder