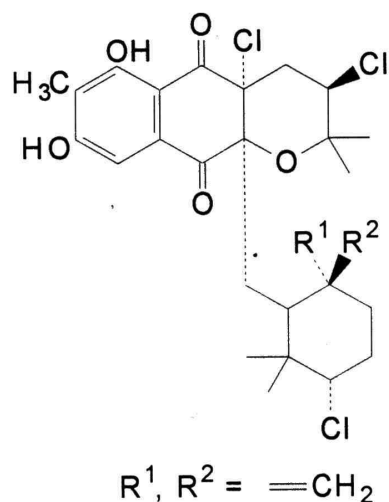


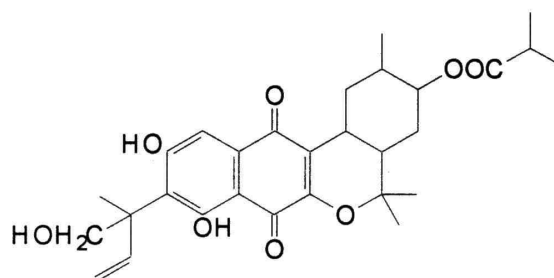
Name: *Streptomyces aculeolatus*  
Authors: Shomura et al. 1988  
Status: New Species  
Reference(s): Int. J. Syst. Bacteriol. 38:136 (validation list)  
Risk group: 1 (German classification)  
Type strain: JCM 6055, SF 2415, DSM 41644

Author(s) Shomura, T., Gomi, S., Ito, M., Yoshida, J., Tanaka, E., Amano, S., Watabe, H., Ohuchi, S., Itoh, J., Sezaki, M., Takebe, H., Uotani, K.  
Title Studies on new antibiotics SF 2416. I. Taxonomy, fermentation, isolation, physico-chemical properties and biological activities.  
Journal J. Antibiot.  
Volume 40  
Page(s) 732-739  
Year 1987

Secondary metabolites from *Streptomyces aculeolatus*  
Naphthoquinone antibiotic, active against gram-positive bacteria



Naphthalblin, inhibitor of abl oncogene function



**Genus:** *Streptomyces*

FH 2897

**Species:** *aculeolatus*

**Numbers in other collections:** ATCC 49003

Morphology:

	G	R
<u>ISP 2</u>	good	red orange
	A	SP
	pure white	none
	G	R
<u>ISP 3</u>	good	yellow orange
	A	SP
	pure white	none
	G	R
<u>ISP 4</u>	good	red orange
	A	SP
	pure white	none
	G	R
<u>ISP 5</u>	good	beige
	A	SP
	none	none
	G	R
<u>ISP 6</u>	good	beige
	A	SP
	none	none
	G	R
<u>ISP 7</u>	good	beige
	A	SP
	none	none

Spore chains:

Spore surface:

Sporangia:

Fragmentation:

**Melanoid pigment:** - - + +

**NaCl resistance:** 2,5 %

**Lysozyme resistance:**

**pH:** Value- Optimum-

**Temperature :** Value- Optimum- 28 °C

**Carbon utilization:**

Glu	Ara	Suc	Xyl	Ino	Man	Fru	Rha	Raf	Cel
+	+	-	-	-	+	+	+	+	-

**Enzymes:**

Gel	Cit	Ure	Arg	Onp	Trp	Lys	Odc	VP	Ind	H2S
+	-	+	+	-	-	-	-	-	-	-
2+	3-	4(+)	5-	6+	7-	8-	9-	10-	11-	12+
13+	14-	15-	16+	17-	18-	19+	20-			

**Comments:**



***Streptomyces aculeolatus***

A and B – Agar plates medium 5006. 5265 and 5315

C – Microplate with ISP- and melanin media