

Dual roles of Compound K

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Role 1 : Spiker



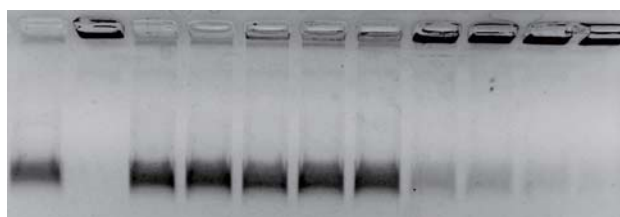
Attack !!

Strong antimicrobial effect !

	Minimum inhibitory conc. (μg/mL)	
	CompoundK	vancomycin
MRSA		
20 strains	2~4	0.5~8
VRE		
23 strains	2~4	128~>256

The target is DNA topoisomeraseIV !

enzyme	Compound K (μM)									
+ -	0.1	0.5	1	2	4	10	15	20	30	



IC₅₀=
10-15 μM



Compound K

Nuphar japonicum

Strong potentiation effect !

	comp. K	Minimum inhibitory conc.(μg/mL)			
		<i>Staphylococcus aureus</i>			
		209P	N315	OM584	Mu50
arbakacin	-	1	1	1	1
	+	<0.03	0.13	0.13	0.25



Toss !!

	comp. K	Minimum inhibitory conc. (μg/mL)	
		<i>Enterococcus</i> (VRE)	
		FN-1	NCTC12201
vancomycin	-	256	>256
	+	1	2

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