



Congener	R Group	MIC ($\mu\text{g/mL}$) <i>S. aureus</i>	ED ₅₀ (iv, mg/kg) Mouse, <i>S. aureus</i>
α		>64	20
γ		8	3.5
δ		4–8	2.6
ϵ		4	0.6
708		0.5–1	0.04

FIGURE 7.14 Structure–activity relationships in the mannopeptimycin antibiotics.

table are measures of antibiotic effectiveness. Minimal inhibitory concentration values (MIC) are measures of antibiotic potency *in vitro* that are determined by serial dilution of a solution of antibiotic substance to the point where no inhibition of growth is obtained. This value is reported in terms of a concentration, in this case in micrograms per milliliter of the final test solution. The ED₅₀ value refers to the potency of the compound against an infection induced in a mouse model. The lowest