



pefloxacin [KLH] (DAG077S)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Species	N/A
Conjugate	KLH
Applications	ELISA, LF
Format	Liquid
Concentration	Please refer to the vial label for the specific concentration.
Size	1 mg
Buffer	Supplied in PBS
Preservative	None
Storage	Short Term: 2-8°C. Long Term: -20°C. Avoid multiple freeze-thaw cycles.

BACKGROUND

Introduction	Pefloxacin is a broad-spectrum and synthetic fluoroquinolone antibiotic and a methylated derivative of norfloxacin. It is active against Gram-negative and Gram-positive bacteria, including clinical isolates of <i>E. coli</i> , <i>K. pneumoniae</i> , <i>S. aureus</i> , and <i>G. vaginalis</i> . Pefloxacin selectively inhibits <i>E. coli</i> topoisomerase I and DNA gyrase over calf thymus topoisomerase I in cell-free assays. In vivo, pefloxacin is active against systemic <i>E. coli</i> , <i>K. pneumoniae</i> , and <i>P. aeruginosa</i> infections in mice with 50% of efficacy maximum (P50) values of 6.5, 29.2, and 219 mg/kg, respectively.
Keywords	pefloxacin