

Supporting information

Discovery of a Teraryl Oxazolidinone Compound

(*S*)-*N*-((3-(3-Fluoro-4-(4-(pyridin-2-yl)-1*H*-pyrazol-1-yl)phenyl)-2-oxooxazolidin-5-yl)methyl) acetamide Phosphate as a Novel Antimicrobial Agent with Enhanced Safety Profile and Efficacies

Tao Yang^{†, ||}, *Gong Chen*^{†, ||}, *Zitai Sang*^{†, ||}, *Yuanyuan Liu*[†], *Xiaoyan Yang*[†], *Ying Chang*[†], *Haiyue Long*[†], *Wei Ang*[†], *Jianying Tang*[‡], *Zhenling Wang*^{†*}, *Guobo Li*[†], *Shengyong Yang*[†], *Jingren Zhang*[§], *Yuquan Wei*[†], and *Youfu Luo*^{†*}

[†] State Key Laboratory of Biotherapy/Collaborative Innovation Center for Biotherapy, West China Hospital, West China Medical School, Sichuan University, Chengdu, Sichuan 610041, China.

[‡] Sichuan Good doctor Pharmaceutical Co., Ltd., Chengdu, Sichuan 610031, China.

[§] Centre for Infectious Diseases Research, School of Medicine, Tsinghua University, Beijing 100084, China.

Contents

1. The survival rate of compounds 10f phosphate and 28b phosphate	S2
2. The analysis of stability of compound 10f phosphate	S3

Table S1. The survival rates of 10f phosphate and 28b phosphate in Mice Systemic Infection Models

Group	Survival rate (%)						
	24h	48h	72h	96h	120h	144h	168h
Model	80	20	20	20	20	20	20
10f phosphate (10 mg/kg)	90	80	60	60	60	40	40
Linezolid (10 mg/kg)	80	80	70	50	50	30	30
10f phosphate (20 mg/kg)	100	90	90	90	90	80	80
Linezolid (20 mg/kg)	100	80	70	70	70	50	50
10f phosphate (40 mg/kg)	100	100	90	90	90	80	80
Linezolid (40 mg/kg)	80	60	50	50	50	50	50
Model	10	0	0	0	0	0	0
28b phosphate (10 mg/kg)	30	20	0	0	0	0	0
Linezolid (10 mg/kg)	30	30	20	20	20	20	20
28b phosphate (20 mg/kg)	20	10	10	10	10	10	10
Linezolid (20 mg/kg)	40	40	30	30	30	30	30
28b phosphate (40 mg/kg)	50	20	20	20	20	20	20
Linezolid (40 mg/kg)	60	60	60	60	60	50	50

Figure S1. HPLC analysis of compound **10f** phosphate aqueous solution by day 0

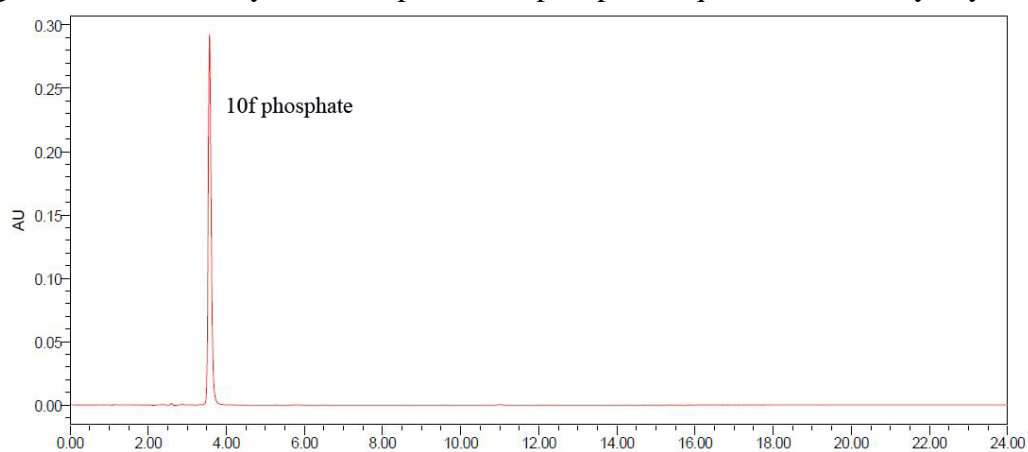
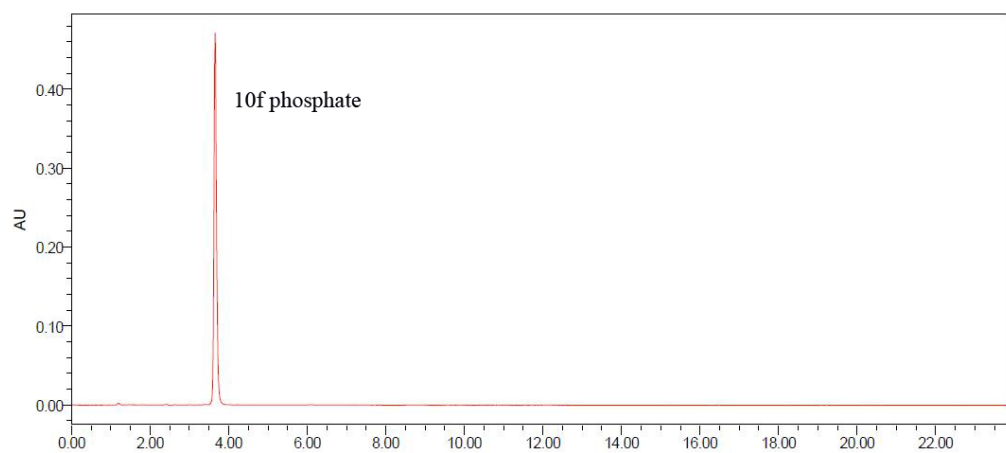


Figure S2. HPLC analysis of compound **10f** phosphate aqueous solution by day 7



Compound **10f** phosphate (10 mg) was dissolved in pure water (1 mL) and stored at 4 degree for one week. Then, the purities of stored samples were analyzed through HPLC.