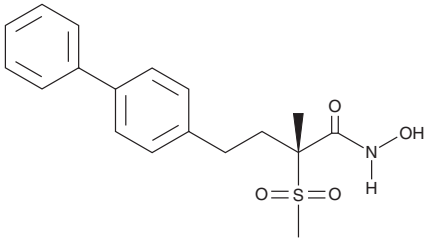
PRODUCT INFORMATION

PF-04753299

Item No. 36502

CAS Registry No.:	1289620-49-0
Formal Name:	N-hydroxy-αR-methyl-α-(methylsulfonyl)-[1,1′-biphenyl]-4-butanamide
MF:	$C_{18}H_{21}NO_4S$
FW:	347.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

PF-04753299 is supplied as a solid. A stock solution may be made by dissolving the PF-04753299 in the solvent of choice, which should be purged with an inert gas. PF-04753299 is soluble in the organic solvent DMSO at a concentration of approximately 34.7 mg/ml.

Description

PF-04753299 is an inhibitor of LpxC (IC_{50} = 1.37 nM), a bacterial deacetylase involved in the biosynthesis of LPS lipid A.[1] It is selective for LpxC over a panel of 16 human matrix metalloproteinases (MMPs; K_is = >1 µM for all). PF-04753299 is active against *P. aeruginosa*, *K. pneumoniae*, *E. coli*, *E. aerogenes*, *C. freundii*, and *A. baumannii* (MIC_{90}s = 4, 16, 2, 4, 8, and 32 µg/ml, respectively). *In vivo*, PF-04753299 reduces splenic bacterial burden in a mouse model of systemic *P. aeruginosa* infection (ED_{50} = 35 mg/kg).

Reference

1. Brown, M.F., Reilly, U., Abramite, J.A., *et al*. Potent inhibitors of LpxC for the treatment of Gram-negative infections. *J. Med. Chem.* **55(2)**, 914-923 (2012).

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