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产品名称: **LED209**

产品别名: **LED209**

| 生物活性: | |
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| Description | <p>LED209 is a potent small molecule inhibitor of bacterial receptor QseC, is a potent prodrug that is highly selective for QseC. Target: Antibacterial LED209 has desirable pharmacokinetics and does not present toxicity in vitro and in rodents. This is a unique antivirulence approach, with a proven broad-spectrum activity against multiple Gram-negative pathogens that cause mammalian infections. The LED209 QseC inhibitor has a unique mode of action by acting as a prodrug scaffold to deliver a warhead that allosterically modifies QseC, impeding virulence in several Gram-negative pathogens.[1] LED209 is QseC sensor kinase inhibitor, as a potential lead compound to combat infections with Legionella or Mycobacterium spp. [2] LED209 inhibits the binding of signals to QseC, preventing its autophosphorylation and consequently inhibiting QseC-mediated activation of virulence gene expression. LED209 inhibits EHEC virulence traits in vitro. LED209 markedly inhibits the virulence of several pathogens in animals. Inhibition of signaling offers a strategy for the development of broad-spectrum antimicrobial drugs. [3]</p> |
| Solvent&Solubility | <p><i>In Vitro:</i></p> <p>DMSO : < 1 mg/mL (insoluble or slightly soluble)</p> |
| References | <p>[1]. Curtis MM, et al. QseC inhibitors as an antivirulence approach for Gram-negative pathogens. MBio. 2014 Nov 11;5(6):e02165.</p> <p>[2]. Harrison CF, et al. Adrenergic antagonists restrict replication of Legionella. Microbiology. 2015 Jul;161(7):1392-406.</p> <p>[3]. Rasko DA, et al. Targeting QseC signaling and virulence for antibiotic development. Science. 2008 Aug 22;321(5892):1078-80.</p> |

源叶生物