# Data Sheet (Cat.No.T35701)

TargetMol

## FSL-1 TFA

### Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

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|---|---|
| Description | FSL-1 TFA, a toll-like receptor 2/6 (TLR2/6) agonist derived from bacteria, bolsters resistance against experimental HSV-2 infection[1] and stimulates MMP-9 production via the TLR2 and NF-κB/AP-1 signaling pathways in monocytic THP-1 cells[2]. |
| Targets(IC50) | MMP,Antibiotic,HSV,TLR |
| In vitro | FSL-1 significantly reduces HSV-2 replication in human vaginal epithelial cells (EC)[1]. FSL-1 induces significant resistance to experimental genital HSV-2 infection through elaboration of a specific cytokine response profile[1].FSL-1 (50 ng/mL, 24 hours) induces MMP-9 expression at both mRNA and protein levels in human monocytic THP-1 cells[2]. FSL-1 activates the MAP kinase/NF-κB signaling pathway[2].<br>Cell Viability Assay[1]<br>Cell Line: V11I, V12I or V19I immortalized human vaginal EC |
| In vivo | FSL-1 application significantly protectes against genital HSV-2 challenge in mice[1].<br>Animal Model: Female Swiss-Webster mice (weighing 20-25 g)[1] |

Reference

William A Rose 2nd, et al. FSL-1, a bacterial-derived toll-like receptor 2/6 agonist, enhances resistance to experimental HSV-2 infection. Virol J. 2009 Nov 10;6:195.
Cathryn J Kurkjian,et al. The Toll-Like Receptor 2/6 Agonist, FSL-1 Lipopeptide, Therapeutically Mitigates Acute Radiation Syndrome. Sci Rep. 2017 Dec 11;7(1):17355.



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