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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

FSL-1 TFA

Cat. No.:	HY-P2036A	
Molecular Formula:	C ₈₄ H ₁₄₀ N ₁₄ O ₁₈ S.xC ₂ HF ₃ O ₂	
Sequence Shortening:	S-(2, 3-Bispalmitoyloxypropyl)-CGDPKHPKSF	
Target:	Toll-like Receptor (TLR); Antibiotic; HSV; MMP	S-(2, 3-Bispalmitoyloxypropyl)-CGDPKHPKSF (TFA salt)
Pathway:	Immunology/Inflammation; Anti-infection; Metabolic Enzyme/Protease	
Storage:	Sealed storage, away from moisture	
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	FSL-1 TFA, a bacterial-derived toll-like receptor 2/6 (TLR2/6) agonist, enhances resistance to experimental HSV-2 infection ^[1] . FSL-1 TFA induces MMP-9 production through TLR2 and NF-κB/AP-1 signaling pathways in monocytic THP-1 cells ^[2] .											
IC₅₀ & Target	TLR2	HSV-2	TLR6	MMP-9								
In Vitro	<p>FSL-1 TFA significantly reduces HSV-2 replication in human vaginal epithelial cells (EC)^[1].</p> <p>FSL-1 TFA induces significant resistance to experimental genital HSV-2 infection through elaboration of a specific cytokine response profile^[1].</p> <p>FSL-1 TFA (50 ng/mL, 24 hours) induces MMP-9 expression at both mRNA and protein levels in human monocytic THP-1 cells^[2].</p> <p>FSL-1 TFA activates the MAP kinase/NF-κB signaling pathway^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>V11I, V12I or V19I immortalized human vaginal EC</td> </tr> <tr> <td>Concentration:</td> <td>6 μg or 0.1 μg</td> </tr> <tr> <td>Incubation Time:</td> <td>Added at 24, 6 or just prior to HSV-2 inoculation (10⁴pfu/well)</td> </tr> <tr> <td>Result:</td> <td>The 6 μg does produced significant reductions when delivered at 24 or 6 h prior to HSV-2 inoculation. The 0.1 μg dose produced reduced HSV-2 replication at 24 or 6 h prior to viral challenge.</td> </tr> </table>				Cell Line:	V11I, V12I or V19I immortalized human vaginal EC	Concentration:	6 μg or 0.1 μg	Incubation Time:	Added at 24, 6 or just prior to HSV-2 inoculation (10 ⁴ pfu/well)	Result:	The 6 μg does produced significant reductions when delivered at 24 or 6 h prior to HSV-2 inoculation. The 0.1 μg dose produced reduced HSV-2 replication at 24 or 6 h prior to viral challenge.
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In Vivo	FSL-1 TFA application significantly protects against genital HSV-2 challenge in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.											

Animal Model:	Female Swiss-Webster mice (weighing 20-25 g) ^[1]
Dosage:	2 or 6 µg
Administration:	Delivered vaginally using a positive displacement pipet, prior to or following viral challenge as specified for each experiment.
Result:	The 2 µg does delivered 6 h prior to HSV-2 challenge increased the ID50 (260 pfu) and LD50 (660 pfu) by 10-fold compared to DPBS vehicle control. The single 6 µg dose produced significantly improved outcomes compared to DPBS vehicle application.

CUSTOMER VALIDATION

- Food Res Int. 10 October 2022, 112029.
- Int J Med Sci. 2022 Feb.

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REFERENCES

- [1]. 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.
- [2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA