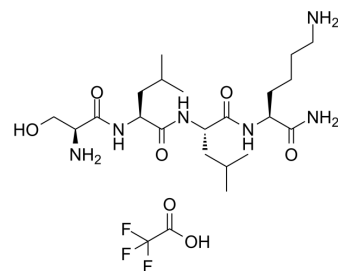


## SLLK, Control Peptide for TSP1 Inhibitor(TFA)

<b>Cat. No.:</b>	HY-P0301A
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>43</sub> F <sub>3</sub> N <sub>6</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	572.62
<b>Sequence:</b>	Ser-Leu-Leu-Lys-NH <sub>2</sub>
<b>Sequence Shortening:</b>	SLLK-NH <sub>2</sub>
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	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<sub>2</sub>O : 125 mg/mL (218.29 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7464 mL	8.7318 mL	17.4636 mL
	5 mM	0.3493 mL	1.7464 mL	3.4927 mL
	10 mM	0.1746 mL	0.8732 mL	1.7464 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

SLLK, Control Peptide for TSP1 Inhibitor (TFA) is a control peptide for LSKL, which is a Thrombospondin (TSP-1) inhibitor.

#### In Vivo

Akita mice treated with 30 mg/kg LSKL have significantly increased nephrin expression, greater than twofold, compared with renal lysates from either saline controls or SLLK-treated mice<sup>[1]</sup>. TGF-β1 is significantly lower (0.10±0.01 pg/mL) in the plasma of mice receiving LSKL compared with that in plasma of mice receiving SLLK control peptide at day 42 (0.20±0.02 pg/mL; P=0.0001). MRNA expression is assessed in the suprarenal aortic lysates obtained from mice receiving SLLK and LSKL peptides<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### PROTOCOL

#### Animal

Mice<sup>[1]</sup>

### Administration <sup>[1]</sup>

The i.p. injection of LSKL, SLLK, or saline began 2 weeks after uninephrectomy and continues thrice weekly for 15 weeks. For the low-dosage treatment regimen, each group of 20 mice receives 3 mg/kg body weight of peptide (LSKL or SLLK) per injection or saline (100  $\mu$ L/10 g body weight per injection). For the high-dosage treatment regimen, Akita mice are given i.p. injections of LSKL or SLLK peptide at 30 mg/kg body weight per injection or saline (100  $\mu$ L/10 g body weight per injection)<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Lu A, et al. Blockade of TSP1-dependent TGF- $\beta$  activity reduces renal injury and proteinuria in a murine model of diabetic nephropathy. *Am J Pathol.* 2011 Jun;178(6):2573-86.

[2]. Krishna SM, et al. A peptide antagonist of thrombospondin-1 promotes abdominal aortic aneurysm progression in the angiotensin II-infused apolipoprotein-E-deficient mouse. *Arterioscler Thromb Vasc Biol.* 2015 Feb;35(2):389-98.

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

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