

## LSKL, Inhibitor of Thrombospondin TSP-1 2TFA

### Chemical Properties

CAS No. :

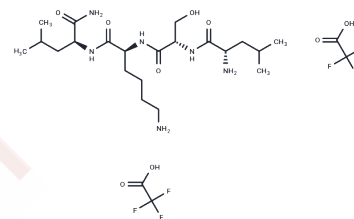
Formula: C25H44F6N6O9

Molecular Weight: 686.64

Storage: year

Pure form: -20°C for 3 years | In solvent: -80°C for 1

Actual storage temperature shall be subject to the COA.



### Biological Description

Description	LSKL, Inhibitor of Thrombospondin TSP-1 2TFA is activation of TGF- $\beta$ .
Targets(IC50)	TGF-beta/Smad
In vivo	Administration of LSKL peptide attenuated Smad2 phosphorylation at 6 h. S-phase entry of hepatocytes was accelerated at 24 and 48 h by LSKL peptide, which resulted in faster recovery of the residual liver and bodyweight. Haematoxylin and eosin tissue staining and blood biochemical examinations revealed no significant adverse effects following the two LSKL peptide administrations. In the clinical setting, plasma TSP-1 levels were lowest on the first day after hepatectomy. However, plasma TSP-1 levels at this stage were significantly higher in patients with subsequent liver dysfunction compared with levels in those without liver dysfunction following hepatectomy
Animal Research	Mice were operated on with a 70 per cent hepatectomy or sham procedure. Operated mice received either LSKL peptide or normal saline intraperitoneally at abdominal closure and 6 h after hepatectomy. Perioperative plasma TSP-1 levels were measured by enzyme-linked immunosorbent assay in patients undergoing hepatectomy.

### Solubility Information

Solubility	DMSO: 27.5 mg/mL (40.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.4564 mL	7.2818 mL	14.5637 mL
5 mM	0.2913 mL	1.4564 mL	2.9127 mL
10 mM	0.1456 mL	0.7282 mL	1.4564 mL
50 mM	0.0291 mL	0.1456 mL	0.2913 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Kuroki H , Hayashi H , Nakagawa S , et al. Effect of LSKL peptide on thrombospondin 1-mediated transforming growth factor  $\beta$  signal activation and liver regeneration after hepatectomy in an experimental model[J]. British Journal of Surgery, 2015, 102(7):813-825.

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