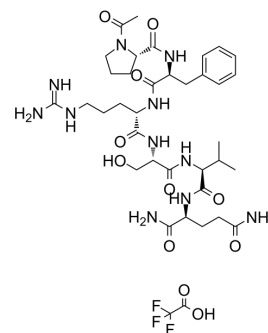


## KKI-5 TFA

**Cat. No.:** HY-P0237A  
**Molecular Formula:** C<sub>37</sub>H<sub>56</sub>F<sub>3</sub>N<sub>11</sub>O<sub>11</sub>  
**Molecular Weight:** 887.9  
**Sequence:** Ac-Pro-Phe-Arg-Ser-Val-Gln-NH<sub>2</sub>  
**Sequence Shortening:** Ac-PFRSVQ-NH<sub>2</sub>  
**Target:** Others  
**Pathway:** Others  
**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 <sub>2</sub> O : 9.09 mg/mL (10.24 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent</div> <div>Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM		1.1263 mL	5.6313 mL	11.2625 mL
		5 mM		0.2253 mL	1.1263 mL	2.2525 mL
		10 mM		0.1126 mL	0.5631 mL	1.1263 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS					
	Solubility: 12.5 mg/mL (14.08 mM); Clear solution; Need ultrasonic					

## BIOLOGICAL ACTIVITY

Description	KKI-5 (TFA) is a specific inhibitor of tissue kallikrein. KKI-5 (TFA) can attenuate breast cancer cell invasion <sup>[1]</sup> .
IC <sub>50</sub> & Target	Kallikrein <sup>[1]</sup>
In Vitro	<p>The KKI-5 Peptide corresponds to aa386-391 of bovine kininogen-1 that encompasses the aa388-389 kallikrein proteolytic site. The synthetic KKI-5 can attenuate breast cancer cell invasion, therefore it is investigated for its role in invasion and metastasis of cancer cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

## REFERENCES

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[1]. Deshpande MS, et al. Mapping the binding site of tissue kallikrein: preparation and testing of all possible substrate analog inhibitors homologous with the sequence of kininogen between Ser386 and Gln392. J Med Chem. 1992 Aug 21;35(17):3094-102.

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

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