

hFSH-β-(33-53) (TFA)

Cat. No.:	HY-P3343A	
Molecular Formula:	C ₁₁₇ H ₁₈₄ F ₃ N ₃₁ O ₃₄ S	
Molecular Weight:	2657.96	
Sequence Shortening:	YTRDLVYKDPARPKIQKTCTF	YTRDLVYKDPARPKIQKTCTF (TFA salt)
Target:	Estrogen Receptor/ERR	
Pathway:	Vitamin D Related/Nuclear Receptor	
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	DMSO : 100 mg/mL (37.62 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.3762 mL	1.8811 mL	3.7623 mL
5 mM		0.0752 mL	0.3762 mL	0.7525 mL	
	10 mM	0.0376 mL	0.1881 mL	0.3762 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (0.94 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (0.94 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (0.94 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	hFSH-β-(33-53) TFA, a thiol-containing peptide which corresponds to a second FSH receptor-binding domain, is a FSHR (follicle-stimulating hormone receptor) antagonist. hFSH-β-(33-53) TFA inhibits binding of FSH to receptor and is a partial agonist of estradiol synthesis in Sertoli cells ^{[1][2][3]} .
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REFERENCES

[1]. Grasso P, et al. A synthetic peptide corresponding to hFSH-beta-(81-95) has thioredoxin-like activity. Mol Cell Endocrinol. 1991;78(3):163-170.

[2]. Xu Y, et al. Pilot study of a novel (18)F-labeled FSHR probe for tumor imaging. Mol Imaging Biol. 2014;16(4):578-585.

[3]. Santa-Coloma TA, et al. Serine analogues of hFSH-beta-(33-53) and hFSH-beta-(81-95) inhibit hFSH binding to receptor. Biochem Biophys Res Commun. 1992;184(3):1273-1279.

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

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