

## Data Sheet

<b>Product Name:</b>	hFSH-β-(33-53) (TFA)	
<b>Cat. No.:</b>	CS-0369060	
<b>Molecular Formula:</b>	C <sub>117</sub> H <sub>184</sub> F <sub>3</sub> N <sub>31</sub> O <sub>34</sub> S	
<b>Molecular Weight:</b>	2657.96	
<b>Target:</b>	Estrogen Receptor/ERR	YTRDLVYKDPARPKIQKTCTF (TFA salt)
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor	
<b>Solubility:</b>	DMSO : 100 mg/mL (37.62 mM; Need ultrasonic)	

### BIOLOGICAL ACTIVITY:

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<sup>[1][2][3]</sup>.

### 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.

### CAIndexNames:

L-Phenylalanine, L-tyrosyl-L-threonyl-L-arginyl-L-α-aspartyl-L-leucyl-L-valyl-L-tyrosyl-L-lysyl-L-α-aspartyl-L-prolyl-L-alanyl-L-arginyl-L-prolyl-L-lysyl-L-isoleucyl-L-glutamyl-L-lysyl-L-threonyl-L-cysteinyl-L-threonyl- (TFA)

### SMILES:

O=C([C@H]1N(CCC1)C([C@H](CC(O)=O)NC([C@H](CCCCN)NC([C@@H](NC([C@H](C(C)C)NC([C@H](CC(C)C)NC([C@H](CC(O)=O)NC([C@H](CCCNC(N)=N)NC([C@H]([C@H](O)C)NC([C@@H](N)CC2=CC=C(C=C2)O)=O)=O)=O)=O)=O)CC3=CC=C(C=C3)O)=O)=O)N[C@@H](C)C(N[C@@H](CCCNC(N)=N)C(N4[C@@H](CCC4)C(N[C@@H](CCCCN)C(N[C@@H]([C@@H](C)CC)C(N[C@@H](CCC(N)=O)C(N[C@@H](CCCCN)C(N[C@@H]([C@H](O)C)C(N[C@@H](CS)C(N[C@@H]([C@H](O)C)C(N[C@H](C(O)=O)CC5=CC=CC=C5)=O)=O)=O)=O)=O)=O)=O)OC(C(F)(F)F)=O

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

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