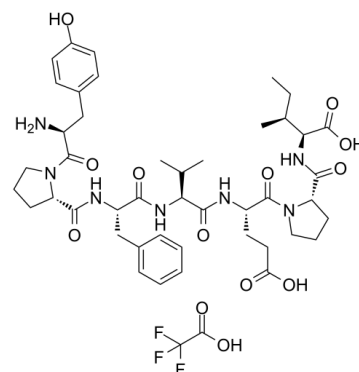


## Data Sheet

<b>Product Name:</b>	β-Casomorphin, human (TFA)
<b>Cat. No.:</b>	CS-0110413
<b>Molecular Formula:</b>	C <sub>46</sub> H <sub>62</sub> F <sub>3</sub> N <sub>7</sub> O <sub>13</sub>
<b>Molecular Weight:</b>	978.02
<b>Target:</b>	Opioid Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Solubility:</b>	DMSO : 100 mg/mL (102.25 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

β-Casomorphin, human TFA (Human β-casomorphin 7 TFA) is an opioid peptide, acts as an agonist of **opioid receptor**<sup>[1][2]</sup>. IC<sub>50</sub> & Target: Opioid receptor<sup>[2]</sup> **In Vitro:** β-Casomorphin, human TFA induces contractions of the guinea-pig ileum myenteric plexus/longitudinal muscle preparation with an IC<sub>50</sub> of 29 μM<sup>[1]</sup>.

β-Casomorphin, human TFA displaces <sup>3</sup>H-spiperone from receptors in frontal cortex starting with 500 nM concentrations<sup>[2]</sup>.

### References:

[1]. Brantl V. Novel opioid peptides derived from human beta-casein: human beta-casomorphins. Eur J Pharmacol. 1984 Oct 30;106(1):213-4.

[2]. Koch G, et al. Opioid activities of human beta-casomorphins. Naunyn Schmiedebergs Arch Pharmacol. 1985 Dec;331(4):351-4.

### CAIndexNames:

(S)-4-((S)-2-((S)-2-((S)-1-(L-Tyrosyl)pyrrolidine-2-carboxamido)-3-phenylpropanamido)-3-methylbutanamido)-5-((S)-2-(((1S,2S)-1-carboxy-2-methylbutyl)carbamoyl)pyrrolidin-1-yl)-5-oxopentanoic acid compound with 2,2,2-trifluoroacetic acid (1:1)

### SMILES:

OC(C(F)(F)F)=O.CC[C@H](C)[C@@H](C(O)=O)NC([C@H]1N(C([C@H](CCC(O)=O)NC([C@H](C(C)C)NC([C@H](CC2=CC=CC=C2)NC([C@H]3N(C([C@H](CC4=CC=C(O)C=C4)N)=O)CCC3)=O)=O)=O)CCC1)=O

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

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