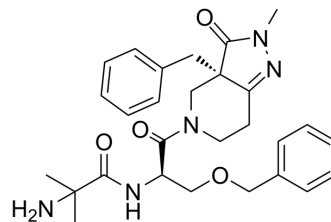


## Capromorelin

<b>Cat. No.:</b>	HY-15242
<b>CAS No.:</b>	193273-66-4
<b>Molecular Formula:</b>	C <sub>28</sub> H <sub>35</sub> N <sub>5</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	505.61
<b>Target:</b>	GHSR
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Capromorelin (CP 424391) is a pyrazolinone-piperidine dipeptide. Capromorelin is an orally active and potent growth hormone secretagogue (GHS) (hGHS-R1a K <sub>i</sub> =7 nM, rat pituicyte EC <sub>50</sub> =3 nM) <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	GHSR1a 7 nM (K <sub>i</sub> )
<b>In Vivo</b>	Capromorelin increases plasma GH levels in an anesthetized rat model, with an ED <sub>50</sub> value less than 0.05 mg/kg iv <sup>[1]</sup> . Capromorelin shows enhanced intestinal absorption in rodent models and exhibited superior pharmacokinetic properties, including high bioavailabilities in two animal species [F(rat)=65%, F(dog)=44%] <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Carpino PA, et al. Pyrazolinone-piperidine dipeptide growth hormone secretagogues (GHSs). Discovery of capromorelin. *Bioorg Med Chem*. 2003 Feb 20;11(4):581-90.

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

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