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Ornipressin

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HRM0077

Product Overview

Name	Ornipressin

Description

Ornipressin

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized with no additives.

Stability

Lyophilized Ornipressin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Ornipressin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by analysis by RP-HPLC.

Amino acid sequence

H-Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Orn-Gly-NH2.

Solubility

It is recommended to reconstitute the lyophilized Ornipressin in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Background

Ornipressin, a naturally occurring non-mammalian vasopressin analogue, has been recognized for its role in vasoconstriction and antidiuresis, making it an invaluable agent in certain clinical settings (Holmes et al., 2003). This paper aims to comprehensively review ornipressin's biochemical properties, its clinical applications, and potential future directions for therapeutic use. Ornipressin is characterized by its strong vasopressin V1 receptor agonist activity, resulting in intense vasoconstriction. It also exhibits antidiuretic properties through the activation of V2 receptors in the renal collecting ducts, albeit to a lesser extent compared to vasopressin (Evans & Davidson, 1964). Clinical applications of ornipressin are mainly driven by its potent vasoconstrictor activity. It has shown promise in managing esophageal variceal bleeding, where its vasoconstrictive properties help achieve hemostasis (Bosch et al., 2004). Furthermore, it has been used as a rescue therapy in vasodilatory shock, where traditional vasoconstrictors

may have limited effect (Morelli et al., 2005). As our understanding of ornipressin continues to expand, future research is directed toward fine-tuning its application in various clinical scenarios and exploring potential new therapeutic roles. Current research is investigating the possible neuroprotective role of ornipressin in conditions such as cerebral ischemia (Uchida et al., 2010). Ornipressin, with its robust vasoconstrictor and antidiuretic properties, plays a crucial role in managing certain clinical situations. As we continue to explore this intriguing compound, its therapeutic potential appears to be far-reaching, warranting continued research in this field

Precautions

Ornipressin is for research use only and not for use in diagnostic or therapeutic procedures.

Background

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