



Oxytocin Human Growth Hormone Peptide For Facilitate Birth CAS 50-56-6

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Hongbaiyi
- Certification: COA, HPLC MR
- Model Number: HBY-Oxytocin
- Minimum Order Quantity: 5box
- Price: US \$ 31-38 / box
- Packaging Details: 2mg/vial, 10vials/box
- Delivery Time: 3-5 work days after your payment
- Payment Terms: , Western Union, T/T
- Supply Ability: 3000kg/Month



Product Specification

- Name: Oxytocin 2mg
- CAS No.: 50-56-6
- MF: C43H66N12O12S2
- MW: 1007.193
- Appearance: White Lyophilized Powder
- Purity: >99%
- Storage: Closed, Below 2 ~ 8 Preservation



More Images



Product Description

Oxytocin Human Growth Hormone Peptide For Facilitate Birth CAS 50-56-6

Basic Information Form of Oxytocin

Name	Oxytocin
CAS NO.	50-56-6
Synonyms	OXYTOCIN; Pitocin; Ocytocin; Syntocinon
MW	1007.193
MF	C43H66N12O12S2
Appearance	White Lyophilized Powder
Purity	>99%
Stability	2 years

What is oxytocin?

Oxytocin is a mammalian hormone that acts primarily as a neuromodulator in the brain. Oxytocin is best known for its roles in sexual reproduction, in particular during and after childbirth. It is released in large amounts after distension of the cervix and uterus during labor, facilitating birth, and after stimulation of the nipples, facilitating breastfeeding. The word oxytocin was derived from the Greek word", meaning quick birth. The oxytocin peptide is synthesized as an inactive precursor protein from the OXT gene.

Oxytocin is a peptide of nine amino acids (a nonapeptide). Its systematic name is cysteine-tyrosine-isoleucine-glutamine-asparagine-cysteine-proline-leucine-glycine-amine (cys, tyr, ile, gln, asn, cys, pro, leu, gly - NH₂, or CYIQNCPLG-NH₂). The cysteine residues form a disulfide bond. Oxytocin has a molecular mass of 1007 daltons. One international unit (IU) of oxytocin is the equivalent of about 2 micrograms of pure peptide. The trust-inducing property of oxytocin might help those who suffer from social anxieties and mood disorders, but with the potential for abuse with confidence tricks and military applications.

The structure of oxytocin is very similar to that of vasopressin (cys, tyr, phe, gln, asn, cys, pro, arg, gly - NH₂), also a nonapeptide with a sulfur bridge, whose sequence differs from oxytocin by two amino acids. A table showing the sequences of members of the vasopressin/oxytocin super family and the species expressing them is present in the vasopressin article. Oxytocin and vasopressin were isolated and synthesized by Vincent du Vigneaud in 1953, work for which he received the Nobel Prize in Chemistry in 1955. Oxytocin and vasopressin are the only known hormones released by the human posterior pituitary gland to act at a distance. However, oxytocin neurons make other peptides, including corticotropin-releasing hormone and dynorphin, for example, that act locally. Oxytocin has peripheral (hormonal) actions, and also has actions in the brain. Its actions are mediated by specific, high-affinity oxytocin receptors. The oxytocin receptor is a G-protein-coupled receptor that requires Mg²⁺ and cholesterol.

Product Image of Oxytocin



Applications Of Oxytocin

Oxytocin is a powerful hormone. When we hug or kiss a loved one, oxytocin levels drive up. It also acts as a neurotransmitter in the brain. In fact, the hormone plays a huge role in pair bonding. Prairie voles, one of nature's most monogamous species, produce oxytocin in spades. This hormone is also greatly stimulated during sex, birth, breast feeding

Oxytocin secreted from the pituitary gland cannot re-enter the brain because of the blood-brain barrier. Instead, the behavioral effects of oxytocin are thought to reflect release from centrally projecting oxytocin neurons, different from those that project to the pituitary gland. Oxytocin receptors are expressed by neurons in many parts of the brain and spinal cord, including the amygdala, ventromedial hypothalamus, septum and brainstem.

Package and Shipping of Oxytocin

Package: 2mg/vial, 10vials/box

Shipping: With 3-5 days after your payment



FAQ of Oxytocin

Q1: Do you Accept Sample Order?

A: Yes. The smallest order we accept is one box.

Q2: Do you accept VISA business credit card?

A: Yes. VISA business credit card is in our payment.

Q3: How long does it take to me if I order?

A: About 3-5 days upon receipt of payment.

Q4: Is there any discount?

A: Yes, if you want to purchase larger quantity, we can offer a better price for you.

Q5: What kind of transportation do you have?

A: We have many ways of transportations, eg: Air, Sea, Special Lines, TNT, FEDEX, EMS, ect.



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