

# Recombinant Human Follicle stimulating hormone therapeutic protein(Follitropin)

**Cat. No.** BRD2-P033H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Human follicle stimulating hormone (FSH) therapeutic protein consists of two non-covalently linked, non-identical glycoproteins designated as the alpha- and beta- subunits. The alpha- and beta- subunits have 92 and 111 amino acids. The alpha subunit is glycosylated at Asn 51 and Asn 78 while the beta subunit is glycosylated at Asn 7 and Asn 24. Follitropin alpha was the world's first recombinant human FSH preparation and is produced in genetically engineered Chinese hamster cell lines (CHO). The nomenclature "alpha" differentiates it from another recombinant human FSH product that was marketed later as follitropin beta. Numerous physio-chemical tests and bioassays indicate that follitropin beta and follitropin alpha are indistinguishable. However, a more recent study showed there is may be a slight clinical difference, with the alpha form tending towards a higher pregnancy rate and the beta form tending towards a lower pregnancy rate, but with significantly higher estradiol (E2) levels. Structural analysis shows that the amino acid sequence of follitropin beta is identical to that of natural human follicle stimulating hormone (FSH). Further, the ogliosaccharide side chains are very similar, but not completely identical to that of natural FSH. However, these small differences do not affect the bioactivity compared to natural FSH.

### Species

Human

### Source

CHO

### Description

In women having been diagnosed with primary ovarian failure, it is used in

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combination with human chorionic gonadotropin (hCG) to assist in ovulation and fertility. In men with hypogonadotrophic hypogonadism, it is used to induce spermatogenesis. Follitropin may also be used to cause the ovary to produce several follicles, which can then be harvested for use in gamete intrafallopian transfer (GIFT) or in vitro fertilization (IVF).

|                  |                                |
|------------------|--------------------------------|
| <b>Endotoxin</b> | < 0.1 EU per µg of the protein |
|------------------|--------------------------------|

|               |      |
|---------------|------|
| <b>Purity</b> | >97% |
|---------------|------|

|              |                  |
|--------------|------------------|
| <b>Alias</b> | FSH; Follitropin |
|--------------|------------------|

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