



Recombinant Protein Technical Manual

Recombinant Human FSH Protein (Flag & His Tag)

RPES4230

Product Data:

Product SKU: RPES4230

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P01215&P01225

Protein Information:

Molecular Mass: 10.2&12.5 kDa

AP Molecular Mass: 20 kDa

Tag: C-Flag & 6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Follicle-stimulating hormone; FSH; FSH alpha/beta

Immunogen Information:

Sequence: Ala25-Ser116&Asn19-Glu129

Background:

Human Follicle-stimulating hormone (FSH) is a member of glycoprotein hormones subunit beta family, which also includes LH, chorionic gonadotropin (CG) and thyroid-stimulating hormone (TSH). FSH and its family members are heterodimers consisting of non-covalently linked α - and β -subunits. They share an identical α subunit, and β -subunits vary. FSH has a unique β -subunit (FSH β), which confers its specific biologic activity and is responsible for interaction with the FSH-receptor which belongs to a subfamily of GPCRs called leucine-rich-repeat-containing GPCRs (LGRs). FSH is secreted from the pituitary gland and regulates reproduction in mammals. FSH stimulates sertoli cell proliferation in testes and supports spermatogenesis in males, and induces the maturation of ovarian follicles in females.