

Recombinant FSH (Danio rerio, single chain)



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CAT No. UCF001
LOT No. A00017
100 mg

Product description

The pituitary glycoprotein hormone family includes follicle-stimulating hormone, luteinizing hormone, chorionic gonadotropin, and thyroid-stimulating hormone. All of these glycoproteins consist of an identical alpha subunit and a hormone-specific beta subunit that confers biological specificity.

Reference sequences: NM_205624.1 and NM_205687
NP_991187 and NP_991250
Swiss-prot Q6TCF7 and Q6QX43

Alternative names: follitropin subunit beta precursor
follitropin subunit alpha precursor

Gene ID: 402919 and 402987

This protein is encoded by a fusion of the mature follitropin subunit beta (residues 17 - 130) and glycoprotein hormones alpha chain (residues 24 - 117) linked by a (gggs)₄ peptide (Nature, 2005, vol 433, 269-277). It contains a N-terminal Strep-tag. The protein was over-expressed in HEK293EBNA1 cells and purified to homogeneity (figure 1). The calculated molecular weight of recombinant Danio rerio FSH is 27.9 kDa. Each vial contains 100 µg FSH at a concentration of 0.98 mg/ml.

Protein sequence

marplctllllmatlagalagswshpqfekgswshpqfekgswshpqfekgsaesecrcsrltnisitveseecgscvtidttacaglcwtmdrvypssmaqhtqkvcnfk
nlmyksyefkgcpagvdsfvypvalscenqvnsttdtwgaispqttsctsihgsgsgsgsgsggsrndvsnvgceecklkmnerfskpgapvyqcvgccfsray
ptplrskttmlvpkntseatccvakeskmvatniplnhtdchcstcyhks

The Strep-tag is shown in red.

Storage and stability

FSH should be stored at - 80 °C (stable for at least 1 year). The buffer contains PBS without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

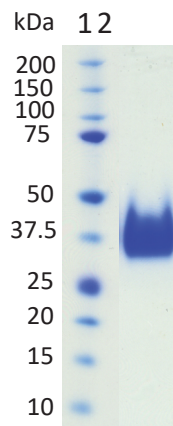


Figure 1.
NuPage analysis of purified FSH-StrepN.
lane 1: marker
lane 2 : FSH-StrepN

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