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**F001**

## FSH (Danio rerio, single chain)

Product name:	FSH (Danio rerio, single chain)
Accession:	NM_205624.1 and NM_205687 NP_991187 and NP_991250 Swiss-prot Q6TCF7 and Q6QX43
Source:	Recombinant
Purification:	Affinity and SEC
Formulation:	PBS, sterile
Storage:	< -20 °C

### Available Product Sizes

Catalog number	Size
F001 – 0.1 mg	0.1 mg
Bulk	On request

### Protein Sequence

marplctllllmatlagalagswshpqfe  
kgs wshpqfekgs wshpqfekgsaesecr  
cscrltnisitveseecgscvtidttaca  
glcwtmdrvypssmaqhtqkvcnfknmy  
ksyefkkgcpagvdsfvypvalscecnqv  
nsdtt dwga is pqtts csihg gggsg gggsg  
ggsgggysr ndvsnygceeklkmnerfs  
kpgapvyqcvgccfsrayptplrskktml  
vpknitseatccvakeskmvatniplnh  
tdchcstcyhks\*

### 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.

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)<sub>4</sub> peptide. It contains a N-terminal Strep-tag. The protein was over-expressed in HEK293 cells and purified to homogeneity. The calculated molecular weight of recombinant Danio rerio FSH is 27.6 kDa.

### Use, Storage and stability

The product should be stored at -80 °C (estimated stability 10 years). The product is stored in PBS at a concentration of > 1 mg/ml. After thawing it should be stored in appropriate small aliquots at -20 °C or -80 °C (stable for at least 1 year).

## Precaution

1. For professional use only.
2. There might be a reduced pressure in the vial. Before opening the vial, equilibrate at 4 °C or ambient temperature. Briefly spin to settle the contents at the bottom of the vial and carefully open the vial.
3. As with any product derived from biological sources, proper handling procedures should be used.
4. The product can be used in various applications and settings. The user should evaluate the fitness-of-use.

## References

- R. Guan, X. Wu, X. Fen, M. Zhang, T.E. Hébert, and D.L. Segaloff, Structural determinants underlying constitutive dimerization of unoccupied human follitropin receptors, *Cellular Signalling*, 2010, 22, 247–256
- A. Garcia-Lopez, H. de Jonge, R.H. Nobrega, P.p. de Waal, W. van Dijk, W. Hemrika, G.I. Taranger, J. Bogerd and R. Schulz, *Endocrinology*, 2010, 151(5), 2349 - 2360

## PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

The product is not for use in humans.

The product can only be used for internal research and development.

The product cannot be used in any commercial activity (commercial use includes, but is not limited to, 1) preparation of growth media with the purpose of sale, 2) R&D activities for third parties). The product cannot be resold.

Please contact [bd@ipatherapeutics.com](mailto:bd@ipatherapeutics.com) to inquire about further information.

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