

Technical Brief

Recombinant Human Follicle Stimulating Hormone

Recombinant Human Follicle Stimulating Hormone (hFSH) from Scripps Laboratories is now available for research use and diagnostic assay development. The ongoing global shortage in the supply of human pituitary glands has severely impacted the availability of native hFSH to the diagnostic industry. In response to this, Scripps Laboratories developed Recombinant hFSH as a reliable and economical alternative to native hFSH. The data presented here demonstrate its suitability for research, assay development and large-scale manufacturing purposes.

SDS-PAGE

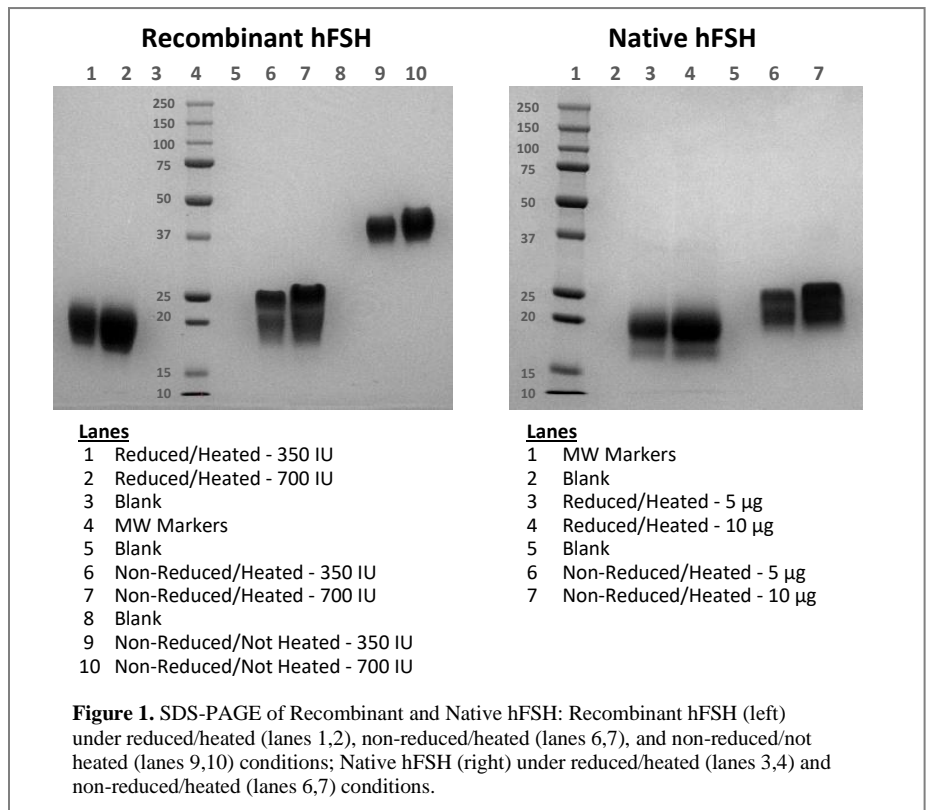
Figure 1 presents SDS-PAGE images of purified Recombinant and Native hFSH. Both versions of hFSH run at approximately the same position, with separation of the α - and β -subunits evident. Whole-molecule Recombinant hFSH and both subunits run at the expected molecular weights. In addition, no contaminating proteins are visible in the Recombinant hFSH gel under the sample conditions described in the figure legend.

SDS-PAGE

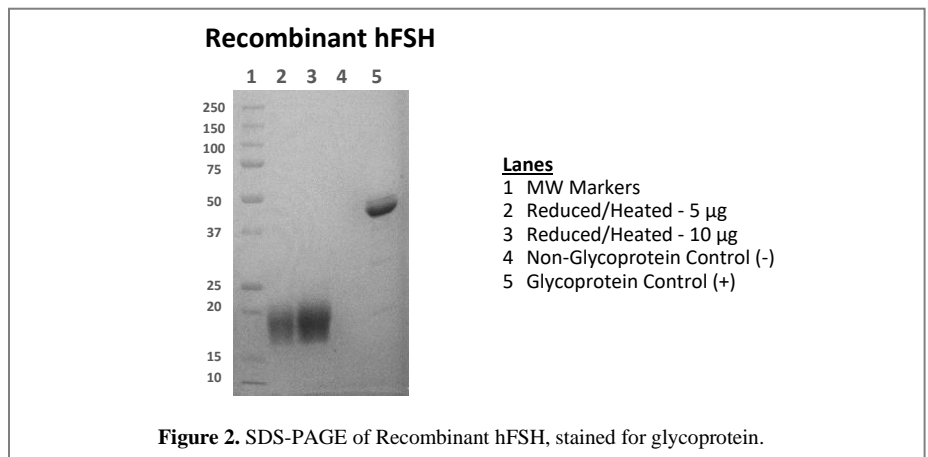
GLYCOPROTEIN STAIN

Native hFSH is a glycoprotein produced and secreted by the anterior lobe of the pituitary gland. Recombinant hFSH from Scripps Laboratories is produced in a mammalian cell line and is also a glycoprotein. Figure 2 is an SDS-PAGE of Recombinant hFSH, stained for carbohydrate moieties. Separation of the alpha- and beta-subunits can be seen and both subunits are confirmed to be glycoproteins.

SDS-PAGE



SDS-PAGE - Glycoprotein Stain -



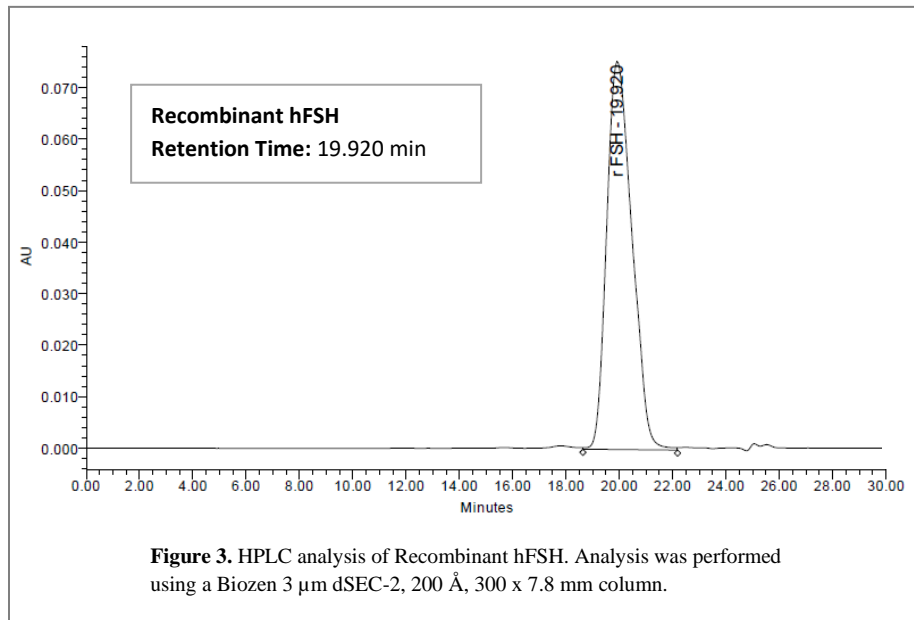
HPLC

Analyzed by HPLC, the elution profile of Recombinant hFSH in Figure 3 displays a single peak with a retention time of 19.920. The absence of any minor peaks confirms what is corroborated by SDS-PAGE: Recombinant hFSH is a highly purified product with no discernable contaminants.

The data presented here for Recombinant hFSH demonstrate it to be an excellent replacement for native FSH. Produced in a mammalian cell culture system, Recombinant hFSH a highly-purified, glycosylated protein. In addition, it is approved for use in multiple clinical diagnostic assay systems worldwide.

Recombinant hFSH is now available from Scripps Laboratories as an economical and sustainable alternative to native hFSH for your research and assay development needs. Use the link at right to learn more.

HPLC



Ordering Information

<u>Product Description</u>	<u>Cat. No.</u>	<u>Part No.</u>	
Recombinant Human Follicle Stimulating Hormone (hFSH)	F0617	90632	View F0617-90632

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