

# National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)

## Polypeptide Hormones, Subunits, and Antisera Available to Qualified Investigators for Research

The materials listed below are procured or donated through programs supported by the National Institute of Diabetes and Digestive and Kidney Diseases, the Center for Population Research of the National Institute of Child Health and Human Development, the Agricultural Research

Service of the U.S. Department of Agriculture and Dr. A. F. Parlow of the Harbor-UCLA Medical Center. These materials are distributed to qualified investigators for research purposes, not for therapeutic, diagnostic or commercial uses.

**Application**—Application forms must be submitted prior to an award. Letters or requests not accompanied by an application form are not acceptable. Forms are available from and should be submitted to:

Dr. Salvatore Raiti, Director, National Hormone and Pituitary Program  
210 West Fayette Street, Suite 505, Baltimore, MD 21201  
Voice PHONE: (410) 706-2746 FAX PHONE: (410) 837-9566  
BITNET: "NHPP@UMAB.BITNET"

**Awards**—Only one ampoule or one RIA kit of each material will be awarded at a time. Requests for larger amounts of materials may be

granted, subject to review by the Hormone Distribution Program Advisory Committee.

### New Materials Available:

1. New, monospecific polyclonal antisera to rat PRL, GH, FSH $\beta$ , LH $\beta$  and TSH $\beta$
2. New, sensitive antiserum for rat LH RIA
3. Rat GH and PRL free of hormonal contaminants
4. Ovine, bovine, porcine FSH devoid of LH
5. Rat LH, FSH and TSH subunits/antisera
6. Glycosylated ovine and porcine PRL
7. 20K variant of hGH
8. Bovine FSH RIA
9. Antiserum to cAMP

### For RIA: Pituitary and placental hormones and subunits, antisera and reference preparations

|              | Human   |      |    | Rat |    |    | Ovine |    |    | Bovine |           | Porcine |    |    | Monkey |    |    |
|--------------|---------|------|----|-----|----|----|-------|----|----|--------|-----------|---------|----|----|--------|----|----|
|              | H       | AS   | RP | H   | AS | RP | H     | AS | RP | H      | AS        | H       | AS | RP | H      | AS | RP |
| ACTH         | 1a      | 1    | —  | —   | —  | 1  | —     | —  | —  | —      | —         | —       | —  | —  | —      | —  | —  |
| CG           | Intact  | 1b   | 1  | —   | —  | —  | —     | —  | —  | —      | —         | —       | —  | —  | —      | —  | —  |
| CG $\alpha$  | Subunit | 1a   | 1  | —   | —  | —  | —     | —  | —  | —      | —         | —       | —  | —  | —      | —  | —  |
| CG $\beta$   | Subunit | 1b   | 1  | —   | —  | —  | —     | —  | —  | —      | —         | —       | —  | —  | —      | —  | —  |
| FSH          | Intact  | 1b   | 1  | 1   | 1b | 1  | 1     | 1a | 1  | 1      | 1         | 1o      | 1c | 1p | —      | 1b | 1  |
| FSH $\alpha$ | Subunit | 1a   | 1  | —   | 1b | 1  | 1     | *  | —  | —      | —         | —       | *  | *  | —      | —  | —  |
| FSH $\beta$  | Subunit | 1b   | 1  | —   | 1b | 1j | 1     | *  | —  | —      | —         | —       | *  | —  | —      | —  | —  |
| GH           |         | 1h   | 1  | 1   | 1e | 1  | 1     | 1h | 1  | —      | *         | *       | *  | *  | —      | *  | —  |
| GH, 20K      | Variant | 1c,g | —  | —   | —  | —  | —     | —  | —  | —      | —         | —       | —  | —  | —      | —  | —  |
| LH           | Intact  | 1e   | 1  | 1   | 1b | 1  | 1     | 1f | 1  | —      | 1g        | —       | 1c | *  | —      | 1n | 1  |
| LH $\alpha$  | Subunit | 1a   | 1k | —   | 1b | 1  | 1     | 1c | 1  | —      | 1         | —       | *  | —  | —      | —  | —  |
| LH $\beta$   | Subunit | 1c   | 1  | —   | 1b | 1  | 1     | 1c | 1m | —      | 1         | —       | *  | *  | —      | —  | —  |
| LPH $\beta$  |         | 1d   | 1  | 1   | —  | —  | —     | —  | —  | —      | —         | —       | —  | —  | —      | —  | —  |
| PL           |         | 1i   | 1  | —   | —  | —  | —     | —  | —  | —      | —         | —       | —  | —  | —      | —  | —  |
| PRL          |         | 1b   | 1  | 1   | 1f | 1  | 1     | 1g | 1  | —      | 1g        | *       | 1b | *  | —      | —  | —  |
| TSH          | Intact  | 1e   | 1  | 1   | 1b | 1  | 1     | 1g | 1  | —      | 1b        | *       | *  | —  | —      | —  | —  |
| TSH $\alpha$ | Subunit | 1c   | 1  | —   | 1b | 1  | 1     | *  | —  | —      | *         | —       | *  | —  | —      | —  | —  |
| TSH $\beta$  | Subunit | 1b   | 1l | —   | 1b | 1  | 1     | *  | —  | —      | 1         | *       | *  | —  | —      | —  | —  |
| (PTH)        |         | —    | —  | —   | —  | —  | —     | —  | —  | —      | 2 $\mu$ g | —       | —  | —  | —      | —  | —  |

a 50 $\mu$ g; b 100 $\mu$ g; c 200 $\mu$ g; d 300 $\mu$ g; e 400 $\mu$ g; f 500 $\mu$ g; g 1mg; h 2mg; i 5mg; j Antisera for 2,500 RIAs; k Antisera for 3,750 RIAs; l Antisera for 5,000 RIAs; m Antisera for 9,750 RIAs; n These materials will be shipped frozen by air express in the U.S.A.; o Request antiserum to ovine FSH, for bovine FSH RIA; p Request antiserum to ovine FSH, for porcine FSH RIA. \* These may be obtained from Dr. A. F. Parlow, Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90509. H, Hormone for Iodination; AS, Diluted Antiserum for 10,000 RIAs or as indicated; RP, Reference Preparation.

**Note**—RIAs for ovine pituitary hormones cross-react strongly with, and may be used for the measurement of, the corresponding bovine pituitary hormones, with the exception of FSH. RIAs for rat pituitary hormones cross-react strongly with, and may be used for the measurement of, the corresponding mouse pituitary hormones, with the exception of PRL. For mouse PRL, use the available homologous

RIA. For mouse GH RIA, use the available mouse GH for iodination with rat GH antiserum. RIAs for human pituitary GH, PRL, and TSH cross react strongly with the corresponding monkey pituitary hormones. Antisera are distributed in liquid or lyophilized form. Antisera for RIA contain merthiolate, if distributed in liquid form.

**For biologic studies: Polypeptide hormones and other materials**

|  | Human  | Rat  | Ovine   | Bovine | Porcine | Other  |
|--|--------|------|---------|--------|---------|--------|
| CG   | 1 mg   | —    | —       | —      | —       | —      |
| CGa  | 1 mg   | —    | —       | —      | —       | —      |
| CG hybrid (ABIER-CR-1xy)                       | 1.5 mg | —    | —       | —      | —       | —      |
| FSH  | 2 mg   | —    | 0.50 mg | —      | 10 mg   | —      |
| GH   | 10 mg  | 5 mg | 50 mg   | 10 mg  | 10 mg   | —      |
| GH, 20K Variant                                | 1 mg   | —    | —       | —      | —       | —      |
| LH   | 5 mg   | —    | 10 mg   | 5 mg   | 10 mg   | —      |
| PRL  | 2 mg   | 5 mg | 50 mg   | 10 mg  | 5 mg    | —      |
| PRL, Glycosylated                              | —      | —    | 1 mg    | —      | 1 mg    | —      |
| TSH  | 2 mg   | —    | 1 mg    | 1 mg   | —       | —      |
| Folliculostatin Reference Preparation <i>n</i> | —      | —    | —       | —      | 0.2 U   | —      |
| Insulin (guinea pig)                           | —      | —    | —       | —      | —       | 80 µg  |
| Insulin (desooctapeptide)                      | —      | —    | —       | —      | 100 µg  | —      |
| LH-FSH-RH (GnRH)                               | —      | —    | —       | —      | —       | 100 µg |
| LH-FSH-RH (GnRH)                               | —      | —    | —       | —      | —       | 10 mg  |
| Porcine follicular fluid (bottle) <i>n</i>     | —      | —    | —       | —      | 500 ml  | —      |
| PTH (BIO)                                      | —      | —    | —       | 1 mg   | —       | —      |
| Relaxin  | —      | —    | —       | —      | 1 mg    | —      |
| Follistatin (recombinant)                      | 0.1 mg | —    | —       | —      | —       | —      |
| Follistatin (recombinant)                      | 1 mg   | —    | —       | —      | —       | —      |

**PITUITARY GLANDS, FROZEN, HUMAN**

U.S. investigators only. Not for clinical investigation.

**ANTISERA FOR IMMUNOCYTOCHEMISTRY (undiluted or in low dilution)**

|   |                |
|---|----------------|
| hGH natural, hGH synthetic, hPRL, hFSH $\beta$ , hLH $\beta$ , hTSH $\beta$ , and hACTH | 1 ampoule      |
| rGH, rPRL, rFSH $\beta$ , rLH $\beta$ , rTSH $\beta$ and mouse GH                       | 1 ampoule      |
| rEstrogen Receptor (ER) Antibody and Synthetic ER Peptide (amino acids 270–284)         | 1 ampoule each |
| oLH $\beta$ and oPRL  | 1 ampoule      |

**OTHER ANTISERA**

|                                      |           |
|--------------------------------------|-----------|
| Aldosterone antiserum                | 1 ampoule |
| Somatomedin-C antiserum (polyclonal) | 1 ampoule |
| Somatomedin-C antiserum (monoclonal) | 1 ampoule |

**HYPOTHALAMI, LYOPHILIZED, RAT**

**MATERIALS AVAILABLE THROUGH THE COURTESY OF DR. A. F. PARLOW**

The antisera listed below may be obtained by writing directly to Dr. A. F. Parlow, Director, Pituitary Hormones and Antisera Center, Harbor–UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90509.

Phone: (310) 222-3537; FAX Phone: (310) 222-3432; BITNET: "PARLOW@HARBORUC.BITNET"

| RIA Kits | Canine | Chicken | Equine | Hamster | Mouse | Rabbit |
|----------|--------|---------|--------|---------|-------|--------|
| GH       | 1      | 1       | 1      | —       | 1     | 1      |
| PRL      | 1      | 1       | 1      | 1       | 1     | 1      |
| FSH      | 1      | —       | —      | —       | RP    | 1      |
| LH       | 1      | —       | RP     | —       | 1     | 1      |
| TSH      | —      | —       | 1      | —       | RP    | 1      |

1, 1 kit; RP, Reference Preparation.

FOR MATERIALS OTHER THAN THOSE LISTED ABOVE, INQUIRE OF DR. SALVATORE RAITI OR DR. A. F. PARLOW.

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The Journal of Andrology, the official journal of the American Society of Andrology, publishes original papers and reviews on clinical and laboratory research pertinent to the structure and function of the male reproductive system and gametes. Membership in the Society is not required for submission of a manuscript. Consult the January/February issue for complete information on style, format, page charges, and requirements for submission. Note new information regarding processing fees.

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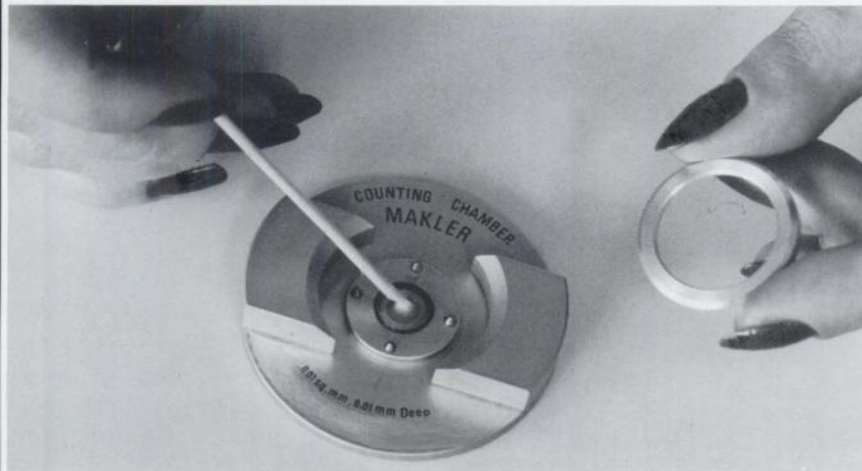
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