## ANTIGENIX AMERICA inc.

# PRODUCT INFORMATION SUMMARY

Human GM-CSF

Product Number RHF230CKX

"SUPER X" ELISA Kit

5 Plate Kit (5 x 96 tests)

Product Number RHF230CKX2 (2 x 96 tests)

Items Provided:

RHF230CKX1 (96 tests)

PRE-COATED ELISA Plates (single , 2, or 5 plates) Biotin-Labeled tracer 25.0 ug or 0.5 mL (see vial) Antigen Standard 1.0 ug or 5.0 ug ( see vial) Streptavidin-HRP 0.5 mLTMB Substrate 25 mL x 2 ( 15 mL - 2 plate)

Wash Buffer Concentrate 125 mL (20X); or 50 mL (2 plate kit)

# DESCRIPTION:

Human Granulocyte -Macrophage Colony Stimulating Factor ( GM-CSF) SUPER X ELISA Kit provides single, two or five PRE-COATED microplates coated with antigen affinity purified antibody stabilized with our proprietary ELISA coating/blocking A biotin labeled tracer antibody, antigen standard, HRP developing reagents and wash buffer are included.

Note: Reconstitute components only when ready to run assay.

## TRACER ANTIBODY:

Provided as 25 uq (lyophilized) or as 0.5 mL liquid @ 50.0 ug/mL ( see vial) of Biotin labeled, antigen-affinity purified antibody, additive-free. Reconstitute the 25 ug (lyophilized vial) in 500 uL sterile water containing 0.1% BSA. ( FREEZE aliquots for long-term storage).

\*\*For liquid vial store refrigerated only ( contains preservative) \*\*.

**STANDARD:** Provided as 1.0 ug or 5.0 ug ( **see vial**) of recombinant Human GM-CSF. Quick-spin and reconstitute in distilled water (pH 8.0) - concentration approx. 0.1 mg/mL. Further dilutions can be made in 0.1% BSA in PBS (Diluent).

## DEVELOPING REAGENTS:

- Streptavidin-HRP (S100180CX) 0.5 mL store @ -20 Deg. C.
- TMB Substrate Solutions Part A and Part B ( 25.0 mL each) cat # ES200CX
- Wash Buffer Concentrate (20X concentrate) Mix 1 volume of wash buffer with 19 volumes of distilled water. Stable for one month @ 4 Deg. C. once mixed to working volume.
- Stop Solution (1X) CAUTION-CAUSTIC.
- Diluent ( 10X) Dilute 1 part with 9 parts distilled water

**HANDLING/ STORAGE:** Reconstitute reagents when ready to build ELISA assay. Tracer Antibody be stored for approximately one month at 4 Degrees C. Or store **frozen** at -20 Degrees C. for up to 6 months.

Biotin tracer antibody provided as 0.5 mL liquid - STORE refrigerated only - contains preservative.

Standard (rec. GM-CSF) can be stored in liquid state (@ 4 Deg. C.) For up to one week, or store **frozen**, with addition of 0.1% BSA, at -20 Deg. C. for up to 2 months. AVOID repeat freeze-thaw. Precoated ELISA plates should be stored in sealed plastic bag with desiccant pack, and are stable for one year from date of receipt.

Store Streptavidin-HRP (S100180CX) frozen @ -20 Deg. C.

Store TMB solutions and wash buffer concentrate at 4 Deg. C. CAUTION: Substrate Solution B contains 20% acetone. FLAMMABLE. Keep away from sources of heat or flame.

#### MATERIALS RECOMMENDED:

Tween -20.
BSA (ELISA grade only, protease-free)
Dubelco's PBS (10X)
PBS: Dilute to 1XPBS in sterile water

## PLATE PREPARATION:

Plates are **pre-coated** with capture antibody and blocked/stabilized with ANTIGENIX proprietary ELISA coating stabilizer (EA150) and are **ready to use**!

Store plates refrigerated ( @ 4 Deg. C.) in sealed plastic bags with desiccant pack. Plates can be stored for one year from data of receipt.

#### PROTOCOL:

STANDARD/SAMPLE: Dilute a portion of the standard (store unused standard in aliquots, high concentration, frozen -20 Deg. C. with addition of 0.1% BSA) from 4.0 ng/mL to zero in diluent (8-point 1:2 serial dilution). Immediately add 100 uL of standard or sample to each well in duplicate. Incubate at room temp. for 90 minutes.

**DETECTION:** Aspirate and wash plate 4 times. **Dilute** detection (Biotin Tracer) antibody in diluent to concentration of **0.10 ug/mL**. (approx. 1:500 from 50.0 ug/mL) Add 100 uL per well. **Incubate** at room temperature for **1 hour**.

STREPTAVIDIN-HRP: Aspirate and wash plate 4 times. Dilute Streptavidin-HRP conjugate approx. 1:2,000 in diluent. (May need to optimize) Add 100 uL per well, incubate 30 minutes at room temperature.

SUBSTRATE: Prepare substrate solution no more than 15 minutes before last incubation of assay: Mix one part TMB Solution A with one part TMB Solution B in a clean container. If, upon mixing, TMB solution turns blue - TMB solution is contaminated-DO NOT USE. Use mixed substrate solution WITHIN 2 Hours, and AVOID DIRECT LIGHT.

Aspirate and wash plate 4 times. **Note:** Wash steps are critical! Add 100 uL substrate solution to each well. **Incubate** at room temp. for color development. **Add** 100 uL of **Stop solution** (2N Sulfuric Acid or reagent provided) within 10-15 minutes to stop color development - gently tap plate to mix. **Read plate** @ **450 nm** within 30 minutes of addition of stop solution.

NOTE: reliable standard curves are obtained when O.D. readings do not exceed 0.25 units for the zero standard concentration, or 2.0 units for the highest standard concentration.

# X-Reactvity data:

**No** measurable X-reactivity was observed @ 40-50 ng/mL with following factors:

Rat GM-CSF Mouse GM-CSF, G-CSF, M-CSF Human: M-CSF, G-CSF, SCF

RESEARCH USE ONLY -NOT For DIAGNOSTIC USE

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