# NCI-H660

## CRL-5813™

### Description

NCI-H660 is an epithelial neuroendocrine cell that was isolated from the prostate of a White, 63-year-old, male patient with carcinoma. This cell line was deposited by AF Gazdar and JD Minna and can be used in cancer research.

**Organism:** *Homo sapiens*, human
**Cell Type:** epithelial neuroendocrine cell
**Tissue:** Prostate
**Age:** 63 years
**Gender:** Male
**Morphology:** epithelial
**Growth properties:** Mixed: floating aggregates of round cells with some attached cells
**Disease:** Carcinoma; Small cell lung cancer; Stage E

### Storage Conditions

**Product format:** Frozen
**Storage conditions:** Vapor phase of liquid nitrogen

### Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

### BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as

guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

## Growth Conditions

**Temperature:** 37°C
**Atmosphere:** 95% Air, 5% $CO_2$

## Handling Procedures

**Unpacking and storage instructions:**

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

**Complete medium:** HITES medium supplemented with 5% fetal bovine serum

1. 0.005 mg/ml Insulin
2. 0.01 mg/ml Transferrin
3. 30nM Sodium selenite (final conc.)
4. 10 nM Hydrocortisone (final conc.)
5. 10 nM beta-estradiol (final conc.)
6. extra 2mM L-glutamine (for final conc. of 4 mM)
7. 5% fetal bovine serum (final conc.)

**Note:** Because of limited stability, Transferrin should be added to an aliquot of the culture medium fresh prior to seeding or performing fluid additions/changes. Complete medium with Transferrin expires in 7 days. This applies to previously supplemented media stock and/or media inside vessels in culture.

Prepare 1 mg/mL Transferrin stock and then add 10 ul per mL culture medium.

**Note:** Transferrin is stable at 4 to 8°C for up to 7 days. Do not use transferrin which has been at 4 to 8°C for more than 7 days.

**Handling Procedure:** To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 280 x g for 10 minutes.
4. Resuspend cell pellet with the recommended complete medium (see the specific lot information on the Certificate of Analysis for culture recommended dilution ratio) and dispense into a 25 cm2 or a 75 cm2 culture flask as

recommended on the Certificate of Analysis. It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the complete growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6).

5. Incubate the culture at 37°C in a suitable incubator. A 5% $CO_2$ in air atmosphere is recommended if using the medium described on this product sheet.

**Comments**

The CRL-5813 cell line grows better in high concentrations, so be cautious to not over-dilute the cell culture.

It is recommended to incubate flask(s) on a slant so that the aggregates settle toward the bottom of the flask for better cell growth.

**Subculturing procedure:**
Add medium as the cell density increases. Shake flask to dislodge attached cells. Single cells are often dead and clusters are viable. Subculture when there are numerous, healthy-appearing clusters present in suspension.
**Medium Renewal:** Every 2 to 3 days

**Note:** Full fluid changes must be performed every 7 days using freshly supplemented medium.

**Reagents for cryopreservation:** Complete growth medium supplemented with 50% (v/v) fetal bovine serum and 10% DMSO (ATCC 4-X)

## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: NCI-H660 (ATCC CRL-5813)

## References

References and other information relating to this material are available at www.atcc.org.

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## Revision

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