

# NR8383 [AgC11x3A; NR8383.1]

Catalog No: tcel172



## Available Sizes

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**Size:** 1×10<sup>6</sup>cells/t25culturebottle

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## Specifications

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### Application:

The NR8383 cell line provides a homogenous source of highly responsive alveolar macarophages which can be used in vitro to study macrophage related activities.

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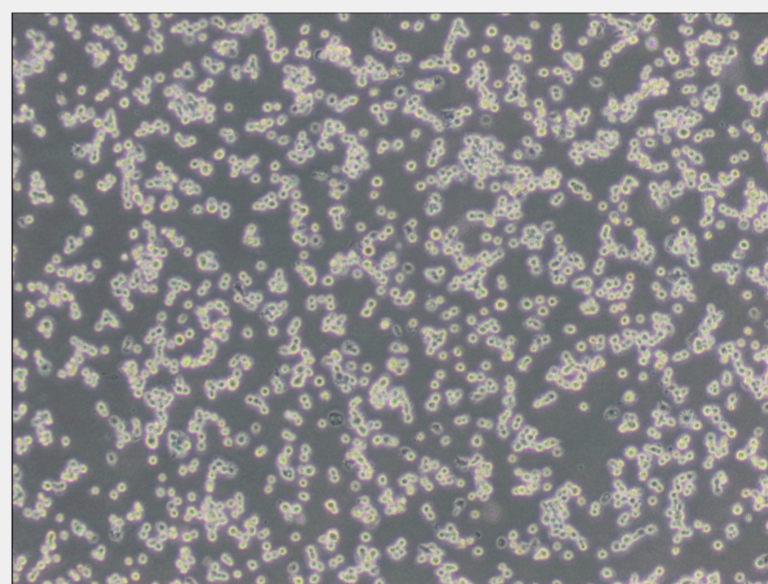
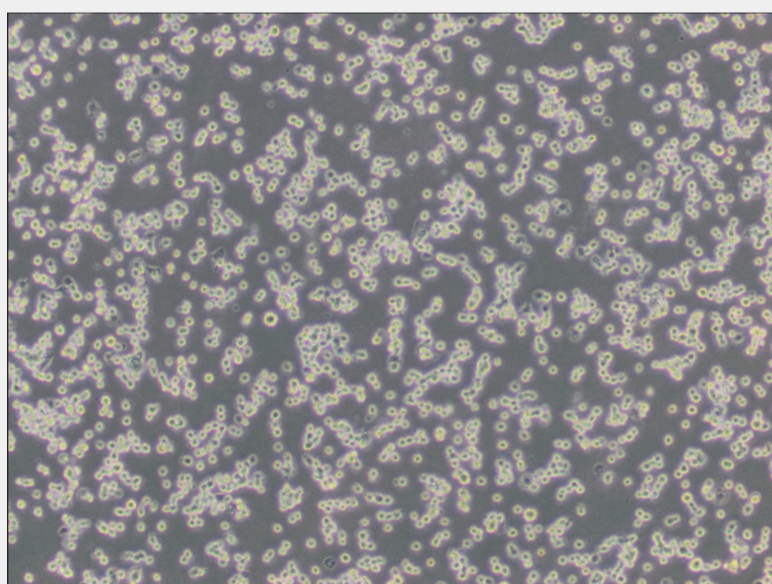
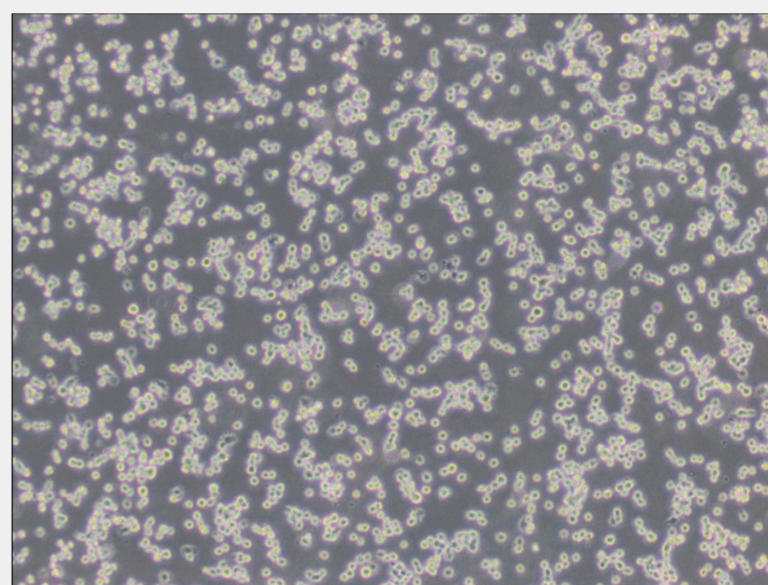
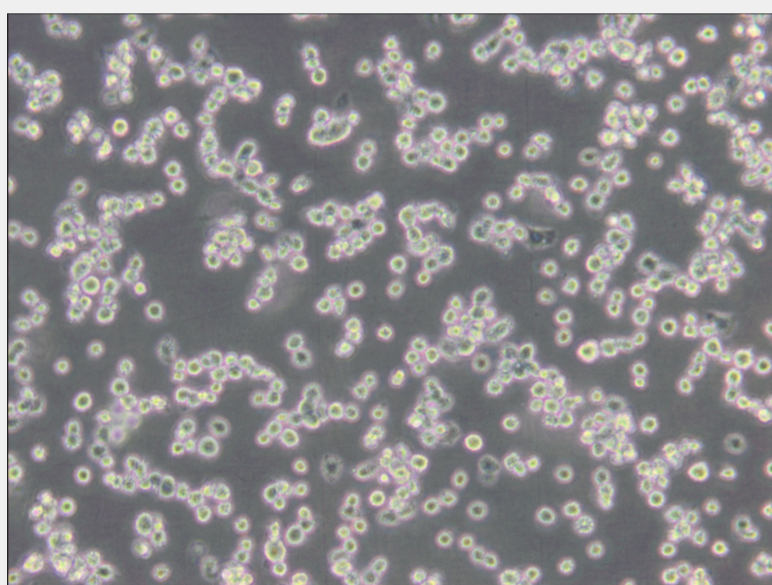
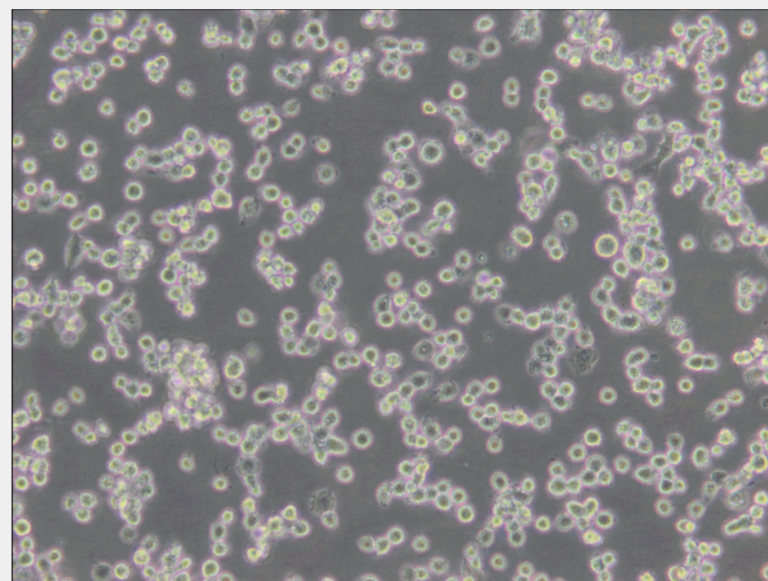
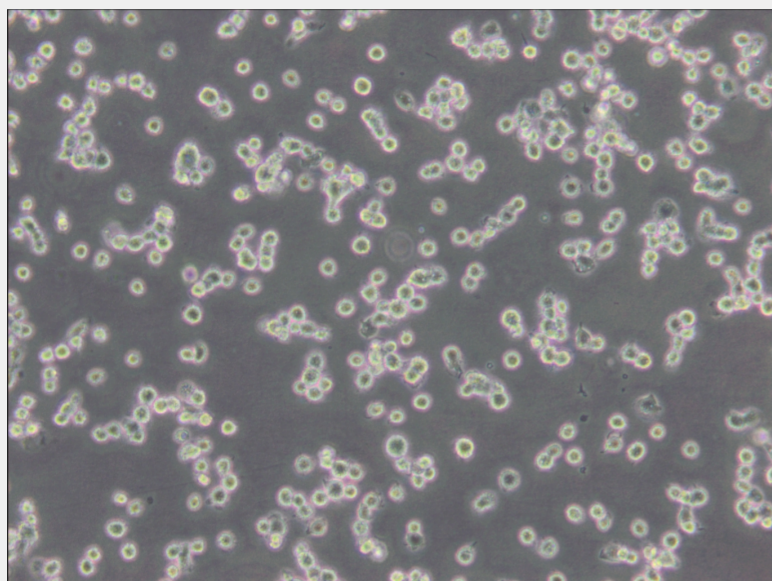
### Subculturing:

Remove and discard culture medium. These cells grow as a mixture of floating and adherent cells. Sometimes many cells are floating, they can be harvested by centrifugation of medium instead of discarding it. Add 1.0 to 2.0 mL of 0.25% (w/v) Trypsin-0.53mM EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 2 to 3 minutes). Add 4.0 to 6.0 mL of complete growth medium and aspirate cells by gently pipetting. Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C.

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## Product Description

The cells were cultured in the presence of gerbil lung cell conditioned medium for approximately 8 to 9 months. Subsequently the requirement for exogenous growth factors was lost. The cells exhibit characteristics of macrophage cells. Phagocytosis of zymosan and Pseudomonas aeruginosa, nonspecific esterase activity, Fc receptors, oxidative burst, IL-1, TNF beta and IL-6 secretion, and replicative response to exogenous growth factors. The cells respond to appropriate microbial, particulate or soluble stimuli with phagocytosis and killing. NR8383 cells respond to bleomycin by secreting latent transforming growth factor (TGF beta). Stimulation with bleomycin also increases TGF beta mRNA expression. These cells are sensitive to endotoxin. LPS levels of 1 to 10 ng/mL inhibit replication by 50%. LPS inhibition is nontoxic and reversible even after levels up to 0.001mg/mL for extended periods.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!