


ATCC
The Global Bioresource Center™

Your Discoveries
Begin with Us.® log: --- Choose Option ---



Home

Ordering Info

Quick Order

Cart

Tech Support

Contact Us

Standards

Products

Licensing


Services

About ATCC

Product Description

Before submitting an order you will be asked to read and accept the terms and conditions of ATCC's [Material Transfer Agreement](#) or, in certain cases, an MTA specified by the depositing institution.

Customers in Europe, Australia, China, Hong Kong, India, Japan, Korea, Macau, New Zealand, Singapore, and Taiwan, R.O.C. must contact a [local distributor](#) for pricing information and to place an order for ATCC cultures and products.

Cell Biology	
ATCC® Number: TIB-202™ <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Order this item</div>	Price: \$203.00
Designations: THP-1 Biosafety Level: 1	Depositors: S Tsuchiya Shipped: frozen
Medium & Serum: See Propagation	Growth Properties: suspension
Organism: <i>Homo sapiens</i> (human)	Morphology: monocyte 
Source: <p>Organ: peripheral blood Cell type: monocyte Disease: acute monocytic leukemia</p>	
Cellular Products: lysozyme [58053]	
Permits/Forms: In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.	<p>Related Cell Culture Products</p>
Applications:	transfection host (technology from amaxa Roche FuGENE® Transfection Reagents)
Receptors:	complement (C3), expressed [58053] Fc, expressed
Antigen Expression:	HLA A2, A9, B5, DRw1, DRw2 [58053]
DNA Profile (STR):	Amelogenin: X,Y CSF1PO: 11,13 D13S317: 13 D16S539: 11,12 D5S818: 11,12 D7S820: 10 THO1: 8,9.3 TPOX: 8,11 vWA: 16
Age:	1 year infant

Gender:	male
Comments:	The cells are phagocytic (for both latex beads and sensitized erythrocytes) and lack surface and cytoplasmic immunoglobulin. [58053] Monocytic differentiation can be induced with the phorbol ester 12-O-tetradecanoylphorbol-13-acetate (TPA). [22193]
Propagation:	ATCC complete growth medium: RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES and 1.0 mM sodium pyruvate and supplemented with 0.05 mM 2-mercaptoethanol, 90%; fetal bovine serum, 10% Temperature: 37.0C Atmosphere: air, 95%; carbon dioxide (CO ₂), 5%
Subculturing:	Protocol: Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 2-4 X 10 ⁴ viable cells/ml. Subcultre when cell concentration reaches 8X10 ⁵ cells/ml. Do not allow the cell concentration to exceed 1 X 10 ⁶ cells/ml. Medium renewal: Every 2 to 3 days
Preservation:	Freeze medium: Complete growth medium supplemented with 5% (v/v) DMSO Storage temperature: liquid nitrogen vapor phase
Doubling Time:	approximately 26 hrs
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium): ATCC 30-2001 recommended serum: ATCC 30-2020 purified RNA: ATCC TIB-202R
References:	22193: Tsuchiya S , et al. Induction of maturation in cultured human monocytic leukemia cells by a phorbol diester. Cancer Res. 42: 1530-1536, 1982. PubMed: 6949641 22285: Skubitz KM , et al. Human granulocyte surface molecules identified by murine monoclonal antibodies. J. Immunol. 131: 1882-1888, 1983. PubMed: 6619543 32286: Cuthbert JA , Lipsky PE . Regulation of proliferation and Ras localization in transformed cells by products of mevalonate metabolism. Cancer Res. 57: 3498-3504, 1997. PubMed: 9270019 32351: Huang S , et al. Adenovirus interaction with distinct integrins mediates separate events in cell entry and gene delivery to hematopoietic cells. J. Virol. 70: 4502-4508, 1996. PubMed: 8676475 32395: Clark RA , et al. Tenascin supports lymphocyte rolling. J. Cell Biol. 137: 755-765, 1997. PubMed: 9151679 32466: Hambleton J , et al. Activation of c-Jun N-terminal kinase in bacterial lipopolysaccharide-stimulated macrophages. Proc. Natl. Acad. Sci. USA 93: 2774-2778, 1996. PubMed: 8610116 33031: Hsu HY , et al. Inhibition of macrophage scavenger receptor activity by tumor necrosis factor-alpha is transcriptionally and post-transcriptionally regulated. J. Biol. Chem. 271: 7767-7773, 1996. PubMed: 8631819 33088: Lucas M , Mazzone T . Cell surface proteoglycans modulate net synthesis and secretion of macrophage apolipoprotein E. J. Biol. Chem. 271: 13454-13460, 1996. PubMed: 8662812 33134: Sando GN , et al. Induction of ceramide glucosyltransferase activity in cultured human keratinocytes. J. Biol. Chem. 271: 22044-22051, 1996. PubMed: 8703011 33141: Ollivier V , et al. Elevated cyclic AMP inhibits NF-kappaB-mediated transcription in human monocytic cells and endothelial cells. J. Biol. Chem. 271: 20828-20835, 1996. PubMed: 8702838 58053: Tsuchiya S , et al. Establishment and characterization of a human acute monocytic leukemia cell line (THP-1). Int. J. Cancer 26: 171-176, 1980. PubMed: 6970727

Notices and Disclaimers

ATCC products are intended for laboratory research purposes only. They are not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this site, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

All prices are listed in U.S. dollars and are subject to change without notice. A discount off the current list price will be applied to most cultures for nonprofit institutions in the United States and Canada. Cultures

that are ordered as test tubes or flasks will carry an additional laboratory fee. Fees for permits, shipping, and handling may apply.

You may continue your word search in Cell Biology selections by typing in your search criteria below or returning to the [Cell Biology](#) menu. To search another product line, choose one from the dropdown box at the top. For complex searches using boolean operators, the following characters must be used: & (for AND), | (for OR), ^ (for AND NOT). An asterisk (*) is used as the wildcard. For more information please review the [Search Help](#).

[Home Page Archive](#)

[Home](#) [Ordering Info](#) [Quick Order](#) [Support](#) [About ATCC](#) [Contact Us](#)
[Privacy Policy](#) [Terms of Use](#) [ATCC MTA](#)

© 2006 American Type Culture Collection (ATCC).
All rights reserved.