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Product Description

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Cell Biology	
ATCC® Number: CCL-107™ <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Order this item</div>	Price: \$203.00
Designations: C6	Depositors: G Sato
Biosafety Level: 1	Shipped: frozen
Medium & Serum: See Propagation	Growth Properties: adherent
Organism: <i>Rattus norvegicus</i> (rat)	Morphology: fibroblast
Source: Organ: brain Cell type: glial cell Disease: glioma	
Cellular Products: S-100 protein; produce glyceryl phosphate dehydrogenase in response to glucocorticoids; somatotrophin	
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.	
<u>Related Cell Culture Products</u>	
Applications:	transfection host (technology from amaxa Roche FuGENE® Transfection Reagents)
Receptors:	glucocorticoid
Virus Susceptibility:	vesicular stomatitis (Indiana); vaccinia; herpes simplex
Virus Resistance:	poliovirus 3
Reverse Transcript:	negative
Cytogenetic Analysis:	Stemline number is diploid. Karyotype is stable within the stemline number and is that of a normal male. Three cells with breaks; one with a secondary constriction, one with a dicentric, one with a rearrangement and four with terminal or centromere associations.
Comments:	The glial cell strain, C6, was cloned from a rat glial tumor induced by N-nitrosomethylurea by Benda et al. after a series of alternate culture and animal passages [PubMed: 4873531]. S-100 production increases ten fold as cells grow from low density to confluency.

Propagation:	ATCC complete growth medium: Ham's F12K medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 82.5%; horse serum, 15%; fetal bovine serum, 2.5% Temperature: 37.0C Atmosphere: air, 95%; carbon dioxide (CO ₂), 5%
Subculturing:	Protocol: <ol style="list-style-type: none"> 1. Remove and discard culture medium. 2. Briefly rinse the cell layer with 0.25% (w/v) Trypsin - 0.53 mM EDTA solution to remove all traces of serum which contains trypsin inhibitor. 3. Add 2.0 to 3.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes). Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37C to facilitate dispersal. 4. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting. 5. Add appropriate aliquots of the cell suspension to new culture vessels. 6. Incubate cultures at 37C. <p>Subcultivation ratio: A subcultivation ratio of 1:2 to 1:3 is recommended</p> <p>Medium renewal: 2 to 3 times per week</p>
Preservation:	Freeze medium: culture medium, 95%; DMSO, 5% Storage temperature: liquid nitrogen vapor phase
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium): ATCC 30-2004 recommended serum: ATCC 30-2020 recommended serum: ATCC 30-2040 0.25% (w/v) Trypsin - 0.53 mM EDTA in Hank' BSS (w/o Ca ⁺⁺ , Mg ⁺⁺): ATCC 30-2101 Cell culture tested DMSO: ATCC 4-X
References:	1022: Benda P , et al. Differentiated rat glial cell strain in tissue culture. Science 161: 370-371, 1968. PubMed: 4873531 25965: Lightbody JJ , et al. Establishment of differentiated clonal strains of glial brain cells in culture. Fed. Proc. 27: 720, 1968. 32720: Chen Y , et al. Demonstration of binding of dengue virus envelope protein to target cells. J. Virol. 70: 8765-8772, 1996. PubMed: 8971005

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C6

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