Product Description

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Cell Biology

ATCC® Number:	**CRL-2299™** Order this item	**Price:**	**$203.00**
Designations:	bEnd.3	**Depositors:**	EC Butcher
Biosafety Level:	1	**Shipped:**	frozen
Medium & Serum:	See Propagation	**Growth Properties:**	adherent
Organism:	*Mus musculus* (mouse)	**Morphology:**	endothelial

Source:
Organ: brain
Tissue: cerebral cortex
Cell type: endothelial; polyoma middle T antigen transformed
Disease: endothelioma

Cellular Products: von Willebrand factor

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Related Cell Culture Products

Restrictions:	The bEnd.3 cell line is provided for research use only under the following terms:1. bEnd.3 cells, or products derived from them, must not be sold or used for commercial purposes. Nor can the cells be distributed to third parties for purpose of sale, or producing for sale, bEnd.3 cells or their products. Commercial interests are the exclusive property of The Max Planck Society. 2. Any proposed commercial use of bEnd.3 cells, or products derived from them, must first be negotiated with Dr. Britta Engelhardt, on behalf of the late Dr. Werner Risau, Max-Planck-Institut fur physiologische und klinische Forschung, W.G. Kerckoff Institut, Abteilung molekulare Zellbiologie, Parkstrasse 1, 61231 Bad Nauheim, Germany. Telephone: 49-6032-705203/265; FAX: 49-6032-072259; email: b.engelhardt@kerckoff.mpg.de3. In all papers reporting any use of bEnd.3 cells, or products derived from them, a direct reference will be made to the original publication (Montesano, et al. Cell 62:435-445, 1990).
Antigen Expression:	ICAM-1 +; VCAM-1 +; MAdCAM-1 +
Strain:	BALB/c
Age:	6 weeks
Comments:	The cells were transformed by infection with the NTKmT retrovirus vector that expresses polyomavirus middle T antigen. [39039] The endothelial nature of these cells was confirmed by the observed expression of von

	Willebrand factor and uptake of fluorescently labeled low density lipoprotein (LDL). [39039] The expression of Peyer's Patch high endothelial receptor for lymphocytes, the mucosal vascular addressin (MAdCAM-1) and E-selectin can be induced on bEnd.3 cells by cytokines and lipopolysaccharide (LPS). [39040] This induction by Tumor Necrosis Factor alpha (TNF alpha), interleukin 1 (IL-1) or LPS is concentration and time dependent. [39040] MAdCAM-1 is expressed on the surface of unstimulated bEnd.3 cells at early passages but not at passages greater than 30. Intracellular adhesion molecule 1 (ICAM-1) is constitutively expressed on the cells, and expression is increased by treatment with LPS, IL-1 and TNF alpha. [39040] Vascular cell adhesion molecule 1 (VCAM-1) is constitutively expressed on the cells at early passages but not at passages over 30. P-selectin can be induced on bEnd.3 cells by Tumor Necrosis Factor alpha (TNF alpha) at both early and late passages but expression is greater at passages over 30.
Propagation:	**ATCC complete growth medium:** Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose, 90%; fetal bovine serum, 10% **Temperature:** 37.0C
Subculturing:	**Protocol:** Remove and discard culture medium. Briefly rinse the cell layer with 0.25% (w/v) Trypsin-0.03% (w/v) EDTA solution to remove all traces of serum which contains trypsin inhibitor.Add 1.0 to 2.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer just begins to detach. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting. Add appropriate aliquots of the cell suspension to new culture vessels. **Subcultivation ratio:** A subcultivation ratio of 1:6 to 1:10 is recommended **Medium renewal:** Every 2 to 3 days
Preservation:	**Freeze medium:** Complete growth medium, 95%; DMSO, 5% **Storage temperature:** liquid nitrogen vapor temperature
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium): ATCC 30-2002 recommended serum: ATCC 30-2020
References:	39039: Montesano R , et al. Increased proteolytic activity is responsible for the aberrant morphogenetic behavior of endothelial cells expressing the middle T oncogene. Cell 62: 435-445, 1990. PubMed: 2379237 39040: Sikorski EE , et al. The Peyer's patch high endothelial receptor for lymphocytes, the mucosal vascular addressin, is induced on a murine endothelial cell line by tumor necrosis factor-alpha and IL-1. J. Immunol. 151: 5239-5250, 1993. PubMed: 7693807 39041: Williams RL , et al. Embryonic lethalities and endothelial tumors in chimeric mice expressing polyoma virus middle T oncogene. Cell 52: 121-131, 1988. PubMed: 3345558

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