

视网膜细胞系(R28)

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产品英文名称

[Retinal Cell Line \(R28\)](#)

产品别名

[Kerafast独特的生物试剂](#)

货号/SKU

EUR201

货号/规格

1 vial

库存与交货期

1-2周

人民币价格

17950

人民币价格说明

本商品人民币2024年销售价格正在调整中，请等待更新完毕。

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产品基础信息

From the laboratory of Gail M. Seigel, PhD, University of Rochester.

产品描述信息

Product Type:

Cell Line

Name: R28
Cell Type: 12S E1A-immortalized rat retinal cells
Accession ID: CVCL_5135
Organism: Rat; NOTE: The R28 cells have undergone verification by IDEXX-RADIL to be of rat origin without contamination by other mammalian cell lines. A baseline genetic profile of these cells is available upon request.
Source: Postnatal day 6 rat neural retina
Morphology: Adherent with glial and neuronal morphologies
Biosafety Level: BSL-1
Subculturing: Split 1:2 when 80% confluent (See also: R28 Cell Care Instructions)
Growth Conditions: DMEM+; See recipe in the recommended SOP:
Cryopreservation: 90% culture medium with 10% DMSO
Storage: -150C
Shipped: Dry ice

产品安全信息

R28-immortalized cell characterization Seigel, GM, 1996. Establishment of an E1A-immortalized rat retinal cell culture, *In Vitro Cell. Devel. Biol.* 32: 66-68. Seigel, GM, Mutchler, A.L., and E.L. Imperato. 1996. Expression of glial cell markers in a retinal precursor cell line. *Mol. Vis.* 2: 2. Seigel, GM, Takahashi, M., Adamus, G., McDaniel, T. 1998. Intraocular transplantation of E1A-immortalized retinal precursor cells. *Cell Transplant.* 7 (6): 559-566. Seigel, GM, Sun, W, Wang, J., Hershberger, DH, Campbell, LM, Salvi, RJ. 2004. Neuronal gene expression and function in the growth-stimulated R28 retinal precursor cell line. *Curr. Eye Res.*, 28 (4):257-269. Seigel, GM and Salvi, RJ. A microarray dataset of genes expressed by the R28 retinal precursor cell line. *Dataset Papers in Neuroscience*, 2013, ID: 261063. View Article Seigel GM. R28 retinal precursor cells: The first 20 years. *Mol Vis.* 2014; 20: 301-306. View Article R28-immortalized cell utilization Uddin MI, Evans SM, Craft JR, Capozzi ME, McCollum GW, Yang R, Marnett LJ, Uddin MJ, Jayagopal A, Penn JS. In Vivo Imaging of Retinal Hypoxia in a Model of Oxygen-Induced Retinopathy. *Sci Rep.* 2016 Aug 5;6:31011. View Article Su PJ, Liu Z, Zhang K, Han X, Saito Y, Xia X, Yokoi K, Shen H, Qin L. Retinal synaptic regeneration via microfluidic guiding channels. *Sci Rep.* 2015 Aug 28;5:13591. doi: 10.1038/srep13591. View Article Song Y, Hong S, Iizuka Y, Kim CY, Seong GJ. The neuroprotective effect of maltol against oxidative stress on rat retinal neuronal cells. *Korean J Ophthalmol.* 2015 Feb;29(1):58-65. doi: 10.3341/kjo.2015.29.1.58. View Article Identification of pigment epithelium-derived factor protein forms with distinct activities on tumor cell lines. Subramanian P, Deshpande M, Locatelli-Hoops S, Moghaddam-Taaheri S, Gutierrez D, Fitzgerald DP, Guerrier S, Rapp M, Notario V, Becerra SP. *J Biomed Biotechnol.* 2012;2012:425907. Epub 2012 Jun 4. Mouse acetylcholinesterase enhances neurite outgrowth of rat R28 cells through interaction with laminin-1. Sperling LE, Klaczinski J, Schütz C, Rudolph L, Layer PG. *PLoS One.* 2012;7(5):e36683. Epub 2012 May 3. Blue light stress in retinal neuronal (R28) cells is dependent on wavelength range and irradiance. Knels L, Valtink M, Roehlecke C, Lupp A, de la Vega J, Mehner M, Funk RH. *Eur J Neurosci.* 2011 Aug;34(4):548-58. doi: 10.1111/j.1460-9568.2011.07790.x. Epub 2011 Jul 22. Inhibition of reactive gliosis prevents neovascular growth in the mouse model of oxygen-induced retinopathy. DeNiro M, Al-Mohanna FH, Al-Mohanna FA. *PLoS One.* 2011;6(7):e22244. Epub 2011 Jul 14. The effects of commercially available preservative-free FDA-approved triamcinolone (Triesence®) on retinal cells in culture. Zacharias LC, Estrago-Franco MF, Ramirez C, Kenney MC, Takahashi WY, Seigel GM, Kuppermann BD. *J Ocul Pharmacol Ther.* 2011 Apr;27(2):143-50. Boriushkin E, Wang JJ, Li J, Jing G, Seigel GM, Zhang SX. Identification of p58IPK as a novel neuroprotective factor for retinal neurons. *Invest Ophthalmol Vis Sci.* 2015 Feb 5;56(2):1374-86. View Article Chan JF, Yip CC, Tsang JO, Tee KM, Cai JP, Chik KK, Zhu Z, Chan CC, Choi GK, Sridhar S, Zhang AJ, Lu G, Chiu K, Lo AC, Tsao SW, Kok KH, Jin DY, Chan KH, Yuen KY. Differential cell line susceptibility to the emerging Zika virus: implications for disease pathogenesis, non-vector-borne human transmission and animal reservoirs. *Emerg Microbes Infect.* 2016 Aug 24;5:e93. View Article Evans SM, Kim K, Moore CE, Uddin MI, Capozzi ME, Craft JR, Sulikowski GA, Jayagopal A. Molecular probes for imaging of hypoxia in the retina. *Bioconjug Chem.* 2014 Nov 19;25(11):2030-7. doi: 10.1021/bc500400z. PubMed PMID: 25250692; PubMed Central PMCID: PMC4240343. View Article Kenealey J, Subramanian P, Comitato A, Bullock J, Keehan L, Polato F, Hoover D, Marigo V, Becerra SP. Small Retinoprotective Peptides Reveal a Receptor-binding Region on Pigment Epithelium-derived Factor. *J Biol Chem.* 2015 Oct 16;290(42):25241-53. View Article Uddin MI, Evans SM, Craft JR, Marnett LJ, Uddin MJ, Jayagopal A. Applications of azo-based probes for imaging retinal hypoxia. *ACS Med Chem Lett.* 2015 Feb 12;6(4):445-9. View Article Asnaghi L, Tripathy A, Yang Q, Kaur H, Hanaford A, Yu W, Eberhart CG. Targeting Notch signaling as a novel therapy for retinoblastoma. *Oncotarget.* 2016 Sep 20. View Article Taylor-Walker G, Lynn SA, Keeling E, Munday R, Johnston DA, Page A, Scott JA, Goverdhan S, Lotery AJ, Ratnayaka JA. The Alzheimer's-related amyloid beta peptide is

internalised by R28 neuroretinal cells and disrupts the microtubule associated protein 2 (MAP-2). Exp Eye Res. 2016 Dec;153:110-121. View ArticleWinokur PN, Subramanian P, Bullock JL, Arocas V, Becerra SP. Comparison of two neurotrophic serpins reveals a small fragment with cell survival activity. Mol Vis. 2017 Jul 3;23:372-384. eCollection 2017. View ArticleDavis BM, Pahlitzsch M, Guo L, Balendra S, Shah P, Ravindran N, Malaguarnera G, Sisa C, Shamsher E, Hamze H, Noor A, Sornsute A, Somavarapu S, Cordeiro MF. Topical Curcumin Nanocarriers are Neuroprotective in Eye Disease. Sci Rep. 2018 Jul 23;8(1):11066. View ArticleMathew B, Ravindran S, Liu X, Torres L, Chennakesavalu M, Huang CC, Feng L, Zelka R, Lopez J, Sharma M, Roth S. Mesenchymal stem cell-derived extracellular vesicles and retinal ischemia-reperfusion. Biomaterials. 2019 Jan 9;197:146-160. View ArticleArranz-Romera A, Davis BM, Bravo-Osuna I, Esteban-Pérez S, Molina-Martínez IT, Shamsher E, Ravindran N, Guo L, Cordeiro MF, Herrero-Vanrell R. Simultaneous co-delivery of neuroprotective drugs from multi loaded PLGA microspheres for the treatment of glaucoma. J Control Release. 2019 Mar 10;297:26-38. View ArticleNúñez-Álvarez C, Osborne NN. Blue light exacerbates and red light counteracts negative insults to retinal ganglion cells in situ and R28 cells in vitro. Neurochem Int. 2019 May;125:187-196. View ArticleChang C, Hu Y, Hogan SL, et al. Pharmacogenomic Variants May Influence the Urinary Excretion of Novel Kidney Injury Biomarkers in Patients Receiving Cisplatin. Int J Mol Sci. 2017;18(7):1333. Published 2017 Jun 22. View ArticleBullock J, Pagan-Mercado G, Becerra SP. Cell-based assays to identify novel retinoprotective agents. MethodsX. 2020 Aug 10;7:101026. View ArticleKim HM, Kwon J, Lee K, Lee JW, Jang DS, Kwon HC. Constituents of Gastrodia elata and Their Neuroprotective Effects in HT22 Hippocampal Neuronal, R28 Retinal Cells, and BV2 Microglial Cells. Plants (Basel). 2020 Aug 18;9(8):1051. View articleYadav M, Schiavone N, Guzman-Arangué A, Giansanti F, Papucci L, Perez de Lara MJ, Singh M, Kaur IP. Atorvastatin-loaded solid lipid nanoparticles as eye drops: proposed treatment option for age-related macular degeneration (AMD). Drug Deliv Transl Res. 2020 Aug;10(4):919-944. View articleYan B, Gao L, Huang Y, Wang X, Lang X, Yan F, Meng B, Sun X, Li G, Wang Y. Exosomes derived from BDNF-expressing 293T attenuate ischemic retinal injury in vitro and in vivo. Aging (Albany NY). 2020 Nov 29;12. View articleIf you publish research with this product, please let us know so we can cite your paper.

主要内容

R28细胞由E1A-NR.3亲本细胞系通过三轮限制稀释，因此来自单个细胞。尽管它们的克隆原因，这些细胞显示出指示视网膜前体细胞的胶质和神经元细胞标志物。父母线E1A-NR.3通过使用PSI2复制不称测逆转录病毒载体的后期6大鼠神经古代组织的永生化建立。结果，这些细胞已经抵抗遗传蛋白/G418并且需要一种用于转染研究的替代选择标记。这些细胞被设计不在动物中形成肿瘤。从罗切斯特大学普尔M. Seigel的实验室。您现在可以预购Seigel的书籍博士院士：我在生物医学研究的战壕中的生活。新出版物：R28视网膜前体细胞：前20岁的出版物：由R28视网膜细胞Limeread博士Seigel相关博客文章表达的基因的微阵列数据集，在路上到视网膜细胞。

厂牌介绍

关于Kerafast Inc.

Kerafast 是一家位于波士顿的试剂公司，其主要使命是为QuanQiu科学界提供易于使用的独特实验室研究工具。我们的产品组合包括细胞系、抗体、小分子、染料等，其中许多在其他地方无法获得。自2011年成立以来，来自全球190多个机构的研究人员通过我们的在线平台提供了他们的创新试剂，无需通过传统的材料转让协议流程即可快速获取材料。

我们处理提供实验室的所有销售和运输物流，并从每次销售中返还丰厚的特许权使用费。因此，我们帮助提供实验室节省时间和资源，同时为进一步研究提供额外资金。采购科学家可以更轻松地发现和获取其他地方通常无法获得的独特试剂，同时还可以资助其他研究人员的工作。这创建了一个QuanQiu科学家社区，他们贡献和获取Reagent for the Greater Good，以加速他们自己的研究以及整体科学进步。

2018年，Kerafast与Absolute Antibody合并，后者是一家总部位于英国的公司，其愿景是为所有研究人员提供重组抗体技术。此次合并将两家公司聚集在一起，共同致力于改善科学界可用的研究工具的选择。

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