

CHO-hERG-DUO

PRC - patch ready cells

Certificate of Analysis

Lot-N°: 92-171110JP01

PRODUCT INFORMATION

Patch ready cells are prepared from recombinant cell lines expressing certain ion channel. The cells are provided in a functionally frozen state and can be used for automated and manual patch clamp experiments instantly after thawing. There is no requirement to cultivate or passage the cells before use.

Cat-N°:	RE305-01
Lot-N°:	92-171110JP01
Cell Line Designation:	CHO-hERG-DUO (licensed by B'SYS GmbH)
Product Format:	patch-ready frozen cells, division arrested by Mitomycin C treatment
Freezing Medium:	Ham's F12/FBS/DMSO
Packaging (nominal):	5 million cells / vial
Additional Components:	recovery buffer, bath buffer
Storage:	Cells: below -140°C (mechanical freezer or liquid nitrogen) Buffer: +4°C
Expiry Date:	10.11.2019

GMO INFORMATION:

Biosafety Level (BSL):	1	Host Cell Line:	CHO-K1
Vector Construct 1:	pcDNA3.1	Genes:	KCNH2, Hygromycin-Res.
Vector Construct 2:	pIRES	Genes:	KCNH2, G418-Res.

QUALITY SPECIFICATION

	Lot-N° 92-171110JP01	Specification Limits
Cell Count ¹	5,02+06 (+/- 2,2E+05)	90 % < > 120 %
Viability (after thawing) ¹	97 % (+/-0,2 %)	> 95 %
Aggregation ¹	1,36 (+/- 0,07)	2,0
Debris Ratio ¹	0,4 (+/- 0,01)	< 0,5
Stability ⁴	3 hours	> 2 hours
Seal Rate ⁵	90%	80%
Success Rate ⁵	75%	70%
Sterility (bacteria, yeast, fungi) ²	no contamination detected	negative after 4 days
Sterility (mycoplasma) ³	no mycoplasma detected	negative by PCR

¹: as determined by CASY TT cytometer,

²: by microscopic/visual control after four days of culture in the absence of antibiotics,

³: as determined in the cell culture supernatant after four days of cultures by PCR,

⁴: cells were maintained in bath buffer at room temperature while carefully agitated. Viability, aggregation and debris were tested to be within the specifications after the time indicated.

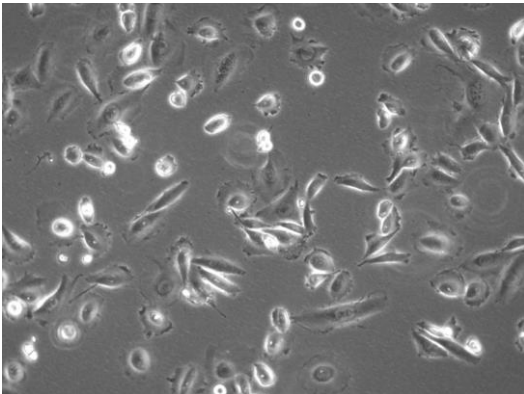
⁵: cells were analyzed in whole-cell configuration to get a membrane resistance of greater than 1 GΩ established (seal rate) and to complete a recording free of rundown (success rate)

CONTACT

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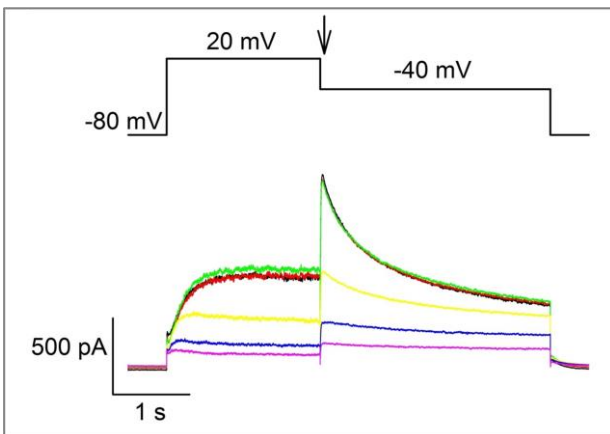
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MORPHOLOGY:



Patch ready CHO-hERG-DUO (Lot-N°: 92-171110JP01)
24 hours after seeding

FUNCTIONAL PERFORMANCE:



Inhibition of hERG currents by Bepridil

Patch ready CHO-hERG-DUO (Lot-N°: 92-171110JP01) were treated with increasing concentration of ion channel blocker Bepridil 48 hours after seeding. Applying manual patch clamp the peak of the tail current amplitude was recorded for each voltage pulse (Frequency 0.1 Hz) on an EPC-10 (HEKA).

- | | | | |
|---|-------|---|---------|
| — | 0 nM | — | 100 nM |
| — | 1 nM | — | 300 nM |
| — | 10 nM | — | 1000 nM |

IC50: 83,2 nM

APPROVAL:

Approval Date: 04.10.2017
 Approved by: Susan Ciura
 Title: Head of Quality Control

Signature: *Susan Ciura*