

# Effective Perturbations of the Amplitude, Gating, and Hysteresis of $I_{K(DR)}$ Caused by PT-2385, an HIF-2 $\alpha$ Inhibitor

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## Cell preparations used in the present work

GH<sub>3</sub> was acquired from the Bioresources Collection and Research Center ([BCRC-60015]; Hsinchu, Taiwan) and originally derived from prolactin-secreting pituitary tumor of the rat. Briefly, cells were cultured with Ham's F-12 medium contained supplement of 15% (v/v) horse serum, 2 mM L-glutamine and 2.5% (v/v) fetal calf serum [1]. GH<sub>3</sub> cells were transferred to a serum-free Ca<sup>2+</sup>-free medium to promote cell differentiation. The multiforme cell line of glioblastoma (13-06-MG) was grown in high-glucose (4 g/L) Dulbecco's modified Eagle media supplemented with 10% (v/v) fetal bovine serum and was provided kindly by Professor Dr. Carol A. Kruse (Department of Neurosurgery, Ronald Reagan UCLA Medical Center, LA, CA)[2]. GH<sub>3</sub> or 13-06-MG cells were maintained in a humidified environment of 5% CO<sub>2</sub>/95% air at 37 °C. By identifying glial fibrillary acidic protein, a cytoskeletal protein, glial cells were verified.

## References

1. Huang, M.H.; Liu, P.Y.; Wu, S.N. Characterization of perturbing actions by verteporfin, a benzoporphyrin photosensitizer, on membrane ionic currents. *Front Chem* **2019**, *7*, 566.
2. Lo, Y.C.; Lin, C.L.; Fang, W.Y.; Lőrinczi, B.; Szatmári, I. Effective activation by kynurenic acid and its aminoalkylated derivatives on m-type k(+) current. **2021**, *22*.

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