Effect of Compounds on Survival of Dopaminergic Neurons

Compound testing for the follwing indications:
•Neuroprotection
•Parkinson‘s Disease

Model 1: *dopaminergic SH-SY5Y human neuroblastoma cells*
SH-SY5Y cells are lesioned with mitochondrial specific toxins known to severe dopaminergic neurons e.g. MPP+. Viability is determined by the MTT assay. Compounds can be examined for their effect on MPP+ lesioned SHSY-5Y cells in a viability assay. Other endpoints related to apoptosis and mitochondrial depolarization can be analyzed.

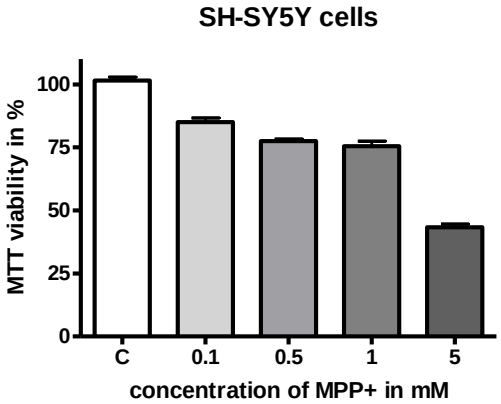

Fig.1. Effect of different concentrations of MPP+ on viability of SH-SY5Y cells. Cells were cultured in 96 well plates and lesioned with the indicated concentrations of MPP+. At 5mM, a substantial lesion was obtained.

Model 2: *primary TH+ neurons derived from E15 rat ventral mesencephalon*
Please contact us for more information.

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