

Parkinson's Disease



LRRK2 G2019S KI/KI Mouse Model

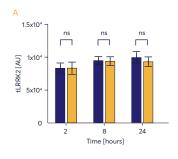
This Parkinson's disease knock-in mouse model carries the human G2019S gain-of-function mutation whitin the endogenous murine LRRK2 gene.

- Unchanged total LRRK2 levels
- Unchanged pS935 LRRK2 levels
- Unchanged basal motor function
- · Unchanged cognitive abilities
- Increased pS1292 LRRK2 levels
- Phosphorylation status modifiable by LRRK2 inhibitor MLi-2

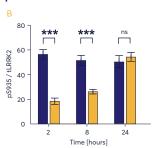
iPSCs with LRRK2 can be used for invitro analysmutationes

Figure 1: Time-dependent inhibition of LRRK2 kinase activity upon single oral MLi-2 treatment. LRRK2 G2019S KI/KI mice received a single dose of MLi-2 or vehicle and were sacrificed 2, 8, or 24 hours later. Brain levels of total LRRK2 (A), pS935 LRRK2 (B), and pS1292 LRRK2 (C) were quantified by immunosorbent assay. Mean ± SEM; n = 8 per group. Two-way ANOVA with Bonferroni's post hoc test; **p<0.01, **p<0.001; ns, not significant.

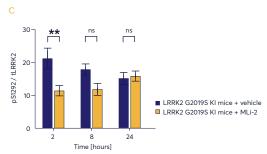
Figure 1 Total LRRK2 Levels



pS935 LRRK2 Levels



pS1292 LRRK2 Levels



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Discovery

Important note

Representative data are shown throughout this document. However, biological variability might cause deviations from shown data.

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