

## Supplement

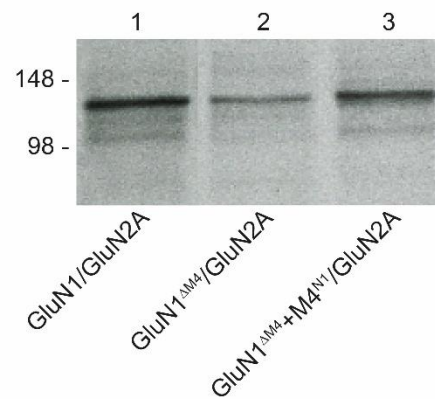


Fig. 1 Impact of M4-truncation and M4-segment coexpression on GluN1/GluN2A receptor expression.

SDS-PAGE of metabolic [<sup>35</sup>S]methionine-tagged GluN1/GluN2A, GluN1<sup>ΔM4</sup>/GluN2A and GluN1<sup>ΔM4</sup>+M4<sup>N1</sup>/GluN2A receptors with purification of C-terminal His-tagged receptor subunit constructs by metal affinity chromatography. All constructs were properly expressed, M4-Segment coexpression did not alter GluN1<sup>ΔM4</sup>+M4<sup>N1</sup>/GluN2A expression level.

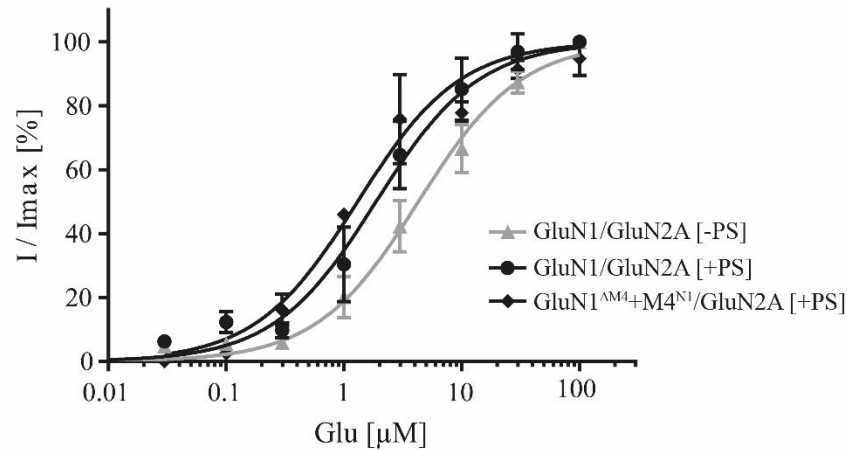


Fig.2 Impact of PS on the Glutamate Affinity.

Dose-response analysis showed that agonist affinity of GluN1/GluN2A and GluN1<sup>ΔM4</sup>+M4<sup>N1</sup>/GluN2A were similar without PS modulation (see results Fig. 1C). PS modulation of both GluN1/GluN2A and GluN1<sup>ΔM4</sup>+M4<sup>N1</sup>/GluN2A resulted in an increase of agonist affinity (GluN1/GluN2A [-PS] EC<sub>50</sub>: 4.2±0.47 μM to [+PS] EC<sub>50</sub>: 1.87±0.29 μM (t(5) = 7.731; p= 0.0006; and GluN1<sup>ΔM4</sup>+M4<sup>N1</sup>/GluN2A [+PS] EC<sub>50</sub>: 1.31±0.2 μM; t(6)=11.64; p <0.0001). The results show a similar shift of the agonist affinity for both wt and M4-segment coexpression. Statistics done by unpaired t-test. Data represent mean ±SEM.

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