

SUPPLEMENTARY MATERIAL for

Towards a Novel Class of Multitarget Directed Ligands: Dual P2X7 – NMDA Receptors Antagonists

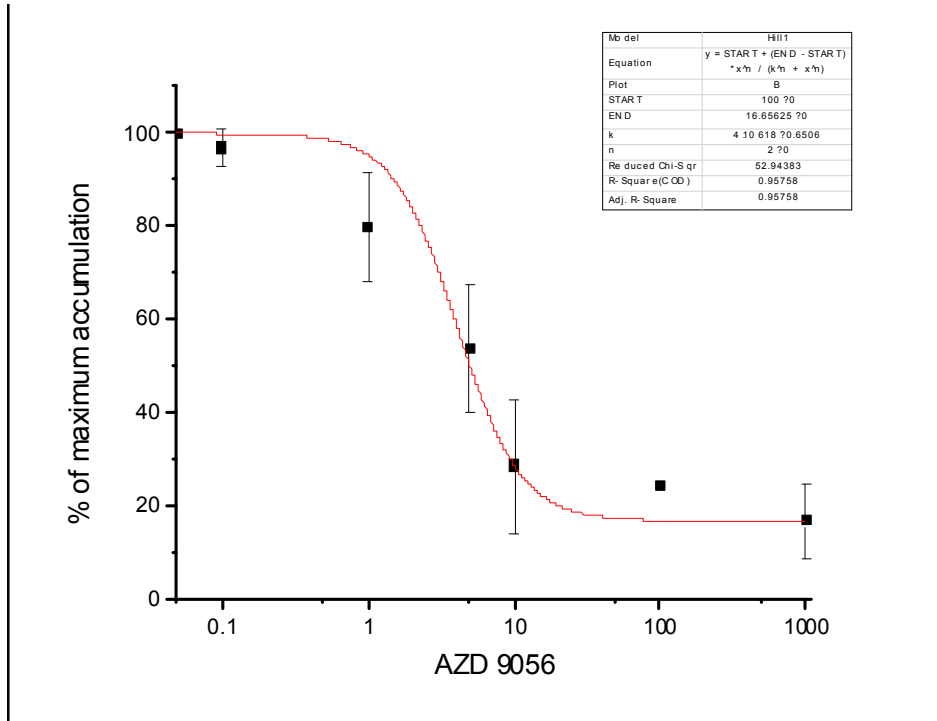
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Xicota*

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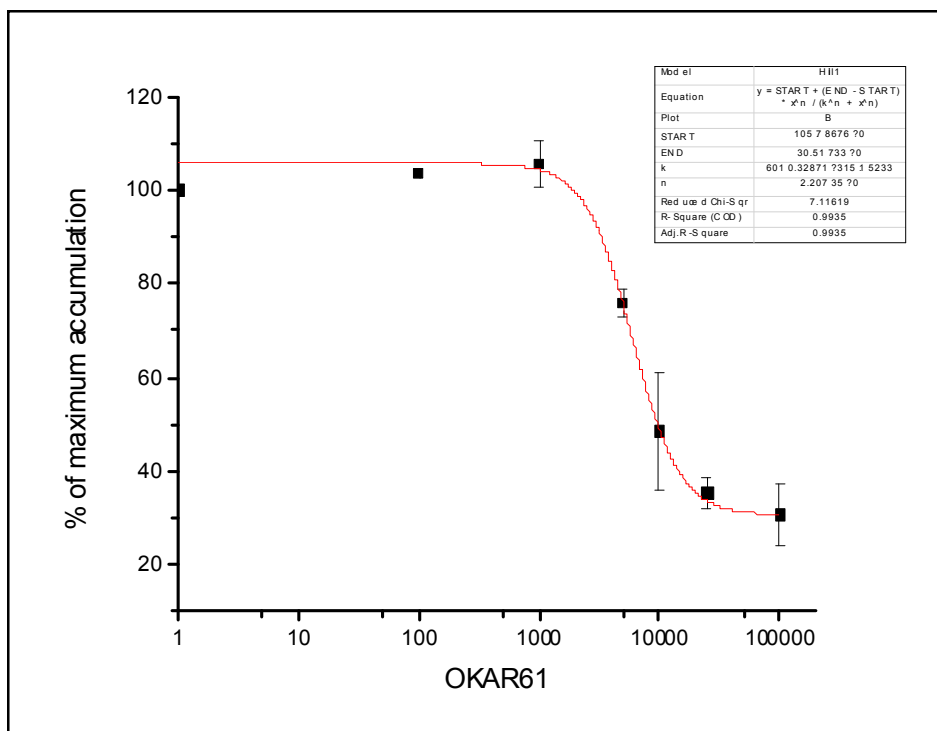
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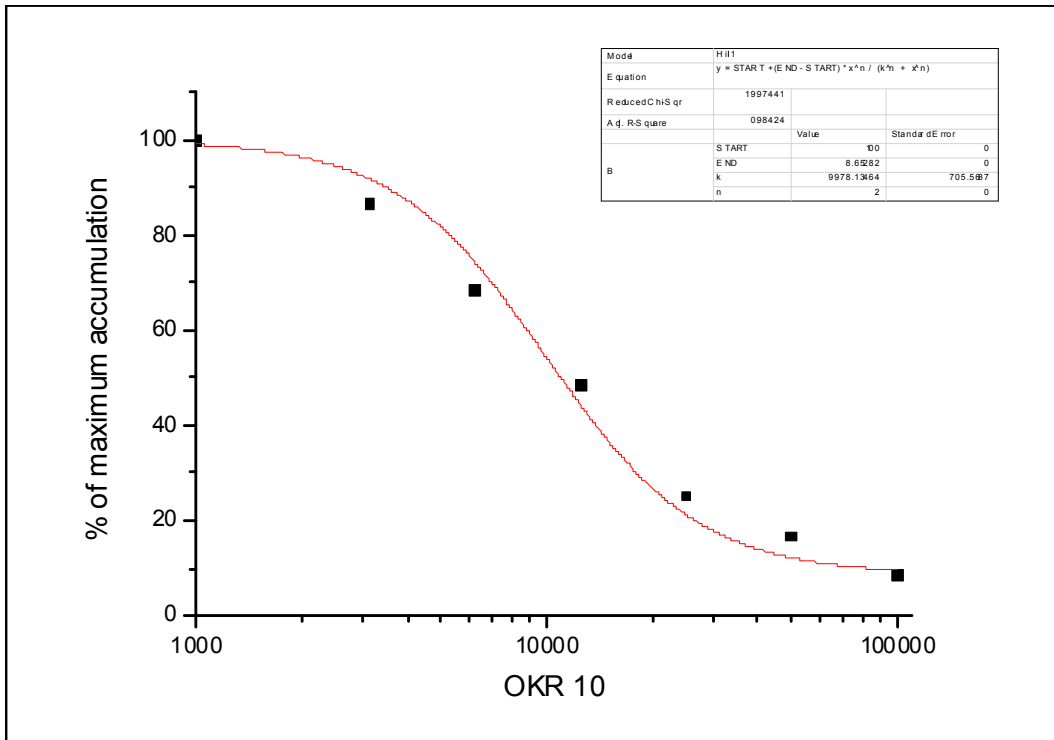
AZD 9056 IC₅₀ = 4.1 nM



Compound 9g IC₅₀ = 6 μM



Compound **15a** IC₅₀ = 9.9 μM



Compound **15b** IC₅₀ = 16.1 μM

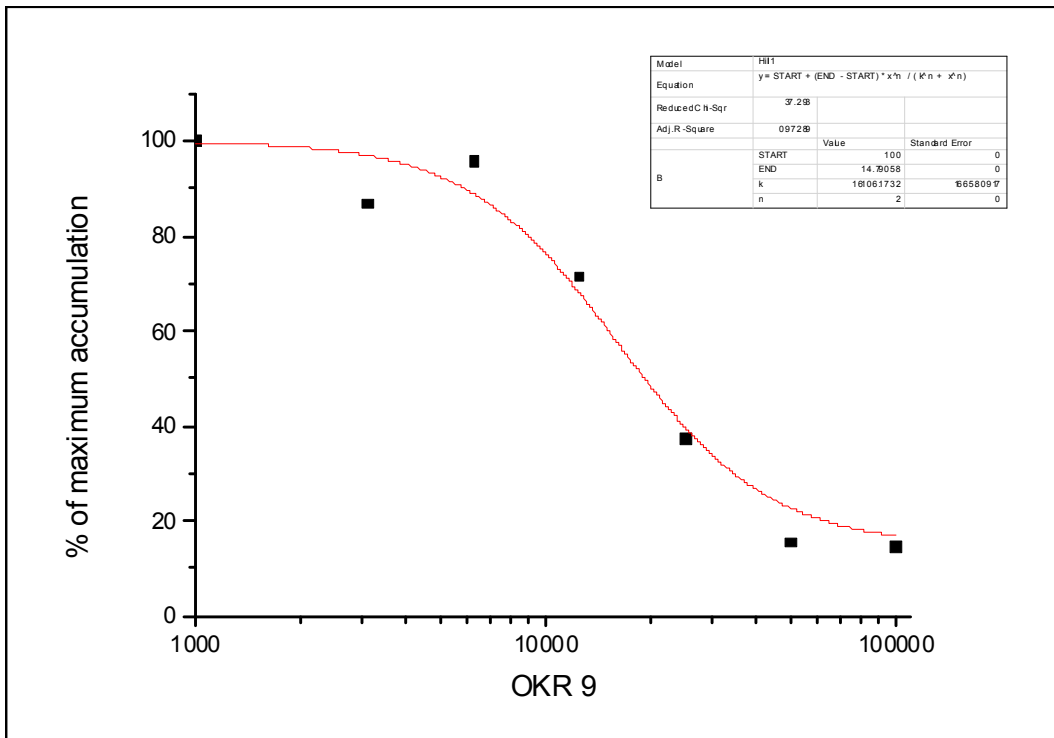
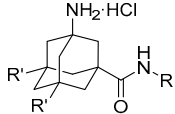
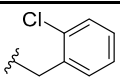
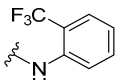
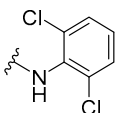
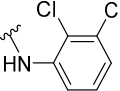
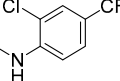
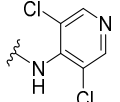
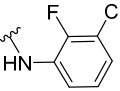
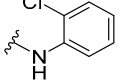
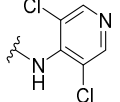
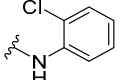


Table S1. NMDA antagonist activity in rat cerebellar granule cells.

Compound			% inhibition ^a or IC ₅₀ ^b
	R	R'	
2		H	18% / 30%
9a		H	5% / 14%
9b		H	17% / 38%
9c		H	23% / 30%
9d		H	20% / Not assayed
9e		H	6% / 16%
9f		H	11% / 18%
9g		H	468 ± 23
15a		CH ₃	20% / 31%
15b		CH ₃	7% / 8%

^aPercentage inhibition values at 100 μM (left) and 300 μM (right) were expressed as percentages, relative to maximum intracellular calcium concentration stimulated by 100 μM NMDA in the presence of 10 μM of glycine. All experiments were repeated at least three times. ^bIC₅₀ value was obtained from concentration response curves.