

**Supplementary Table S1.** Pharmacological parameters of insect and human GABA receptors.

Protein (Accnb)	GABA		fipronil	picotoxin
	EC <sub>50</sub> (μM)	p	IC <sub>50</sub> (μM)	IC <sub>50</sub> (μM)
<i>A. pisum</i> RDL1	23.8 ± 2.5(20)	2.4 ± 0.3 (20)	0.31 ± 0.11(19)	0.7 ± 0.2 (12)
<i>A. pisum</i> RDL1 <sup>ad*</sup> AXY92182.1	23 ± 1.7	1.6 ± 0.1	0.64 ± 0.15	ND
<i>A. pisum</i> RDL1 <sup>bd*</sup>	51 ± 9.1	2.0 ± 0.3	0.18 ± 0.06	ND
<i>A. pisum</i> RDL2 <sup>b*</sup> AXY92183.1	28 ± 5.4	1.0 ± 0.1	0.72 ± 0.19	ND
<i>A. mellifera</i> RDLAJE68941.1	19.3 ± 3.5(13)	2.1 ± 0.2 (13)	0.07 ± 0.2(9)	0.6 ± 0.1(15)
<i>V. destructor</i> RDL1 <sup>#</sup> AVY53069.1	269 ± 41 (10)	2.3 ± 0.2 (10)	>500μM	>500μM
<i>V. destructor</i> RDL2 <sup>#</sup> AYR04938.1	14.8 ± 1.4 (13)	1.8 ± 0.2 (13)	0.77 ± 0.25(11)	0.7 ± 0.5 (14)
<i>V. destructor</i> RDL3 <sup>#</sup> AVY53071.1	43.1 ± 10.4 (9)	2.3 ± 0.1 (9)	3.64 ± 1.74(5)	0.6 ± 0.1 (10)
<i>H. sapiens</i> α2β2γ2 <sup>&amp;</sup>	27.4 ± 4.4(10)	1.4 ± 0.1 (10)	1.88 ± 0.39(9)	1.2 ± 0.1 (4)
<i>H. sapiens</i> α4β2γ2 <sup>&amp;</sup>	6.9 ± 2.1(21)	1.4 ± 0.2 (21)	ND	1.6 ± 0.2 (4)

\* : see (8) for results ; #and &see (7) and (14) for partial characterization.