

# (–)-Adaline from the *Adalia* genus of ladybirds is a potent antagonist of insect and specific mammalian nicotinic acetylcholine receptors

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**List of abbreviations used:** ACh: acetylcholine; nAChR: nicotinic acetylcholine receptor; DCM: dichloromethane; DMEM: Dulbecco's modified Eagle medium; EGTA: ethylene glycol-bis(β-aminoethyl ether)-*N,N,N',N'*-tetraacetic acid; FCS: foetal calf serum; HEPES: *N*-(2-hydroxyethyl)piperazine-*N'*-(2-ethanesulfonic acid)

**Figure S1.** GC-MS analysis. Main graph: gas chromatogram (Agilent 5890 GC, Agilent Technologies, Santa Clara, California, USA) of the *A. bipunctata* alkaloid fraction showing the major peak of (–)-adaline present in the sample. Insert: coupled 70 eV mass spectrum of (–)-adaline.

