



Schematic drawing of signal transduction pathways of apoptotic signals and targets of some natural compounds with stimulating activity. Abbreviations: TNF = Tumor Necrosis Factor; FAS = Fragment Apoptosis Stimulant; TRAIL = Tumor-necrosis-factor Related Apoptosis Inducing Ligand; APAF-1 = Apoptosis Activator Factor-1; Bcl-2 = B-cell lymphoma 2; Bax = Bcl-2-associated X protein; Bak = Bcl-2 homologous antagonist killer; SMAC = Second Mitochondrial Activator of Caspase; IAPs = Inhibiting Apoptosis Proteins; FADD = Fas-Associated protein with Death Domains; cFLIP = cellular caspase 8 (FLICE)-Inhibitory Protein; FLICE (also called caspase 8) = Fas-associated protein with death domain-Like IL-1 $\beta$ -Converting Enzyme-inhibitory protein; BID = BH3 (Bcl-2 Homology-3)-Interacting Domain death agonist; tBID = Truncated BID.