

## Combining naturally occurring polyphenols with TNF-related apoptosis-inducing ligand: a promising approach to kill resistant cancer cells?

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Fig. 2 Chemical structures of polyphenols that exhibit a synergistic effect with TRAIL.

Fig. 3 Chemical structure of the synthetic flavonoid flavopiridol.

**Fig. 4** Schematic model of action of polyphenols on the TRAIL signaling pathway. Polyphenols modulate both the extrinsic and intrinsic pathways, and also tumor suppressors such as P53 and survival proteins such as Akt. The molecular targets vary depending on the structure of the polyphenolic compound and the cell type. This model reports only the main molecular targets of polyphenols.