3-Aminobenzamide is an inhibitor of poly(ADP-ribosyl) polymerase (PARP) that exhibits cytoprotective, anti-atherosclerotic, and anticancer activities. 3-Aminobenzamide prevents UV-induced cell death in vitro and inhibits TGF-β1-induced phosphorylation of Smad3 in other cellular models. In vivo, this compound inhibits production of inflammatory cytokines, suppresses PARP activation, and decreases atherosclerotic lesion size. Additionally, 3-aminobenzamide induces G1 phase cell cycle arrest, downregulates expression of cyclin D1, β-catenin, c-Jun, c-Myc, and Id2, upregulates expression of p21 and genes involved in differentiation, and induces differentiation in osteosarcoma cells.

References

