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Copper Gluconate

National Cancer Institute

Source

National Cancer Institute. *Copper Gluconate*. NCI Thesaurus. Code C80050.

The orally bioavailable copper salt of D-gluconic acid. In addition to its roles as an enzyme cofactor for cytochrome C oxidase and superoxide dismutase, copper forms complexes with the thiocarbamate disulfiram (DSF) forming DSF-copper complexes, which enhances the DSF-mediated inhibition of the 26S proteasome; proteasome inhibition may result in inhibition of cellular protein degradation, cessation of cell cycle progression, inhibition of cellular proliferation, and the induction of apoptosis in susceptible tumor cell populations.