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Halofuginone Hydrobromide

National Cancer Institute

Source

National Cancer Institute. *Halofuginone Hydrobromide*. NCI Thesaurus. Code C2656.

The hydrobromide salt of halofuginone, a semisynthetic quinazolinone alkaloid anticoccidial derived from the plant *Dichroa febrifuga*, with antifibrotic and potential antineoplastic activities. Halofuginone specifically inhibits collagen type I gene expression and matrix metalloproteinase 2 (MMP-2) gene expression, which may result in the suppression of angiogenesis, tumor stromal cell development, and tumor cell growth. These effects appear to be due to halofuginone-mediated inhibition of the collagen type I and MMP-2 promoters. Collagen type I and MMP-2 play important roles in fibro-proliferative diseases.