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MetAP2 Inhibitor SDX-7320

National Cancer Institute

Source

National Cancer Institute. *MetAP2 Inhibitor SDX-7320*. NCI Thesaurus. Code C128030.

A synthetic copolymer-drug conjugate of a fumagillin-derived methionine aminopeptidase 2 (MetAP2) inhibitor conjugated to the bio-compatible polymer poly(N-(hydroxypropyl)methacrylamide) (HPMA), with potential antineoplastic activity. Upon administration of SDX-7320, the active moiety SDX7539 is released inside the tumor cells. SDX7539 binds to and inhibits MetAP2, which prevents MetAP2-mediated signal transduction pathways and results in tumor cell death. MetAP2, a member of the dimetallohydrolase family upregulated in certain tumor cell types, plays a key role in angiogenesis, proliferation and survival. Polymer conjugation reduces systemic drug exposure and increases this agent's efficacy as compared to non-polymer conjugates.