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# 4'-Iodo-4'-Deoxydoxorubicin

National Cancer Institute

## Source

National Cancer Institute. *4'-Iodo-4'-Deoxydoxorubicin*. NCI Thesaurus. Code C971.

An iodinated doxorubicin analogue with antiamyloid activity. 4'-Iodo-4'-deoxydoxorubicin (IDOX) binds with high affinity to five types of natural amyloid fibrils including immunoglobulin light chains, amyloid A, transthyretin (methionine-30 variant), beta-protein (Alzheimer), and beta2-microglobulin. This agent may inhibit fibril growth, increasing the solubility of amyloid tissue deposits and facilitating their clearance. IDOX has also been shown to inhibit insulin amyloid fibrillogenesis in vitro.