

Open Peer Review on Qeios

Melphalan Hydrochloride

National Cancer Institute

Source

National Cancer Institute. <u>Melphalan Hydrochloride</u>. NCI Thesaurus. Code C48002.

A bifunctional alkylating agent and phenylalanine derivative of nitrogen mustard. Melphalan hydrochloride is converted into highly reactive ethylenimmonium intermediates that induce covalent guanine N7-N7 intra- and inter-crosslinks and alkylation of adenine N3 of DNA. This agent also alkylates RNA and protein structures. As a result RNA transcription and protein synthesis are inhibited, ultimately leading to cell growth arrest and/or death.

Qeios ID: 4NNZ70 · https://doi.org/10.32388/4NNZ70