

[Open Peer Review on Qeios](#)

# Checkpoint Kinase Inhibitor AZD7762

National Cancer Institute

## Source

National Cancer Institute. *Checkpoint Kinase Inhibitor AZD7762*. NCI Thesaurus. Code C66961.

A synthetic small molecule inhibitor of checkpoint kinases (Chks) with potential chemosensitizing activity. AZD7762 binds to and inhibits Chks, which may prevent cell cycle arrest and subsequent nucleotide excision repair in DNA-damaged tumor cells, resulting in tumor cell apoptosis. This agent may enhance the cytotoxicity of DNA-damaging agents. Chks are protein kinases that regulate either G1/S or G2/M transitions in the cell cycle. In the presence of DNA damage or incomplete DNA replication, Chks become activated and initiate cell cycle arrest to allow DNA repair or the completion of DNA replication.