

[Open Peer Review on Qeios](#)

Palbociclib Isethionate

National Cancer Institute

Source

National Cancer Institute. *Palbociclib Isethionate*. NCI Thesaurus. Code C120259.

The isethionate salt form of palbociclib, an orally available cyclin-dependent kinase (CDK) inhibitor with potential antineoplastic activity. Palbociclib selectively inhibits cyclin-dependent kinase 4 (CDK4) and 6 (CDK6), thereby inhibiting retinoblastoma (Rb) protein phosphorylation early in the G1 phase leading to cell cycle arrest. This suppresses DNA replication and decreases tumor cell proliferation. CDK4 and 6 are serine/threonine kinases that are upregulated in many tumor cell types and play a key role in the regulation of cell cycle progression.