

[Open Peer Review on Qeios](#)

# Umbralisib

National Cancer Institute

## Source

National Cancer Institute. *Umbralisib*. NCI Thesaurus. Code C104413.

An orally bioavailable, selective inhibitor of the delta isoform of the 110 kDa catalytic subunit of class I phosphoinositide-3 kinases (PI3K) with potential antineoplastic activity. PI3K-delta inhibitor TGR-1202 inhibits PI3K and prevents the activation of the PI3K/AKT kinase signaling pathway. This decreases proliferation and induces cell death in susceptible tumor cells. Unlike other isoforms of PI3K, PI3K-delta is expressed primarily in tumor cells and cells of the hematopoietic lineage. The targeted inhibition of PI3K-delta allows for PI3K signaling in normal, non-neoplastic cells. PI3K, an enzyme often overexpressed in cancer cells, plays a crucial role in tumor cell regulation and survival.