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Serabelisib

National Cancer Institute

Source

National Cancer Institute. <u>Serabelisib</u>. NCI Thesaurus. Code C98844.

An orally bioavailable inhibitor of the class I phosphoinositide 3-kinase (PI3K) alpha isoform with potential antineoplastic activity. Serabelisib selectively inhibits PI3K alpha kinase, including mutations of PIK3CA, in the PI3K/Akt/mTOR pathway, which may result in tumor cell apoptosis and growth inhibition in PI3K alpha-expressing tumor cells. By specifically targeting class I PI3K alpha, this agent may be more efficacious and less toxic than pan PI3K inhibitors. Dysregulation of the PI3K/Akt/mTOR pathway is frequently found in solid tumors and results in promoting tumor cell growth, survival, and resistance to chemotherapy and radiotherapy; PIK3CA, one of the most highly mutated oncogenes, encodes the p110-alpha catalytic subunit of the class I PI3K.

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