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# Pimonidazole

National Cancer Institute

## Source

National Cancer Institute. *Pimonidazole*. NCI Thesaurus. Code C1196.

A 2-nitroimidazole with hypoxic selectivity and potential radiosensitizing activities. Pimonidazole is reduced in hypoxic environments such as those found in tumors. In hypoxic cells, reduced pimonidazole binds to thiol-containing proteins. The resulting complexes accumulate in hypoxic tumors, thereby depleting radioprotective thiol compounds and sensitizing tumor cells to be more susceptible for radiation treatment.