## Open Peer Review on Qeios

## Phenobarbital

National Cancer Institute

## Source

National Cancer Institute. <u>Phenobarbital</u>. NCI Thesaurus. Code C739.

A long-acting barbituric acid derivative with antipsychotic property. Phenobarbital binds to and activates the gamma-aminobutyric acid (GABA)-A receptor, thereby mimicking the inhibitory actions of GABA in the brain. The activation effects of the phenobarbitalreceptor-ionophore complex include increased frequency of chloride channel openings, membrane hyperpolarization and ultimately synaptic inhibition and decreased neuronal excitability. In addition, this agent inhibits glutamate induced depolarization.