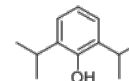


Product Name : Propofol
Cat. No. : PC-70280
CAS No. : 2078-54-8
Molecular Formula : C₁₂H₁₈O
Molecular Weight : 178.271
Target : Kinesin
Solubility : 10 mM in DMSO



Biological Activity

Propofol (2,6-Diisopropylphenol) is a widely used general anesthetic to induce and maintain anesthesia, also inhibits kinesin-1 **KIF5B** and kinesin-2 KIF3AB and KIF3AC.

Propofol (2,6-Diisopropylphenol) influences ligand-gated channels, including the **GABAA receptor** and others.

Propofol (2,6-Diisopropylphenol) also inhibits conventional kinesin-1 KIF5B and kinesin-2 KIF3AB and KIF3AC, causing a significant reduction in the distances that these processive kinesins can travel without an effect on velocity (EC₅₀<100 nM).

References

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Jin WZ, et al. *Eur J Pharmacol*. 2016 Oct 5;788:37-44.

Eaton MM, et al. *Curr Neuropharmacol*. 2016;14(7):772-80.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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