

❖ ABSTRACT:

Thymol is the most common dietary constituent and is mainly found in thyme species. It contains 2-isopropyl-5-methylphenol with colorless crystalline in nature. Nowadays it is used in traditional medicine. It has been observed that thymol has several pharmacological properties as well as multiple therapeutic activities that include antibacterial, anti-inflammatory, anticancer, antispasmodic, and others. The object of this review article is to summarize the effect of anticancer of thymol and thymol nanoparticles in different types of cancer as well as different molecular level mechanism pathways for inhibition of cancer. Different types of nanoparticle formulations loaded with thymol have developed in recent research due to their potential therapeutic activity, pharmacological action as well and significant mechanism action as nature-originated potential candidates. Here We developed thymol loaded nanoparticles and revealed its effect in colon cancer.