

# Nanoparticle

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**Abstract:** *Nowadays, nano technology is developing, and technology in the field of medicine is always enhanced. A nanoparticle is a tiny particle with a diameter of 1 to 100 nanometers. This type of particle is more effective at performing its function in a targeted area. There have been numerous methods established for the preparation of nanoparticles, all of which are suitable for the synthesis of nanoparticles of various sizes and shapes. In the pharmaceutical industry, nanoparticles are used to make medical preparations. It provides a variety of administrative routes (oral, parental, pulmonary and transdermal). Nanoparticles are used to treat various disease's cancer, asthma, diabetes, allergies, etc. The origin, dimensions, and structure configuration of nanoparticles are all classified. Nanoparticles are classified into three kinds based on their origin: organic, anthropogenic, metal, and other. The aim of this paper is to develop Nanomolecules and their types, source, treatment and toxicity.*

**Keywords:** Nanoparticle, Types, Preparation, Toxicity

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