

NS6130-02-257

TRI CALCIUM PHOSPHATE Nanoparticles

Quick Facts

Product	:	Tri Calcium Phosphate Nanoparticles
Stock No	:	NS6130-02-257
CAS	:	7758-87-4
Molecular Formula	:	$\text{Ca}_3(\text{PO}_4)_2$
Form	:	Powder

Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
310.18g/mol	3.18g/cm ³	>450°C	<80nm

Nanomedicine is an emerging field of biomedical research. Calcium phosphate nanoparticles have gained increasing interest in medicine because of their high biocompatibility and good biodegradability which is due to the fact that calcium phosphate is the inorganic mineral of human bone and teeth. Therefore, they complement typical nanoparticulate systems which are used in medicine, e.g. polymers, metallic nanoparticles (like gold), iron oxide nanoparticles (like magnetite) and quantum dots (like CdS).

Application

- ✓ Gene silencing
- ✓ Drug delivery
- ✓ Fluorescence imaging
- ✓ Photodynamic therapy



$\text{Ca}_3(\text{PO}_4)_2$
APS <80nm



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