

## Carboxymethyl chitosan Methacryloyl

### Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

### Biological Description

Description	Carboxymethyl chitosan Methacryloyl (CMCSMA) is a methacryloylated form of carboxymethyl chitosan with properties suitable for 3D printing inks. Composite hydrogels made from this compound can effectively accelerate bone healing in infectious environments, as demonstrated in a rat model with femoral defects infected by Staphylococcus aureus. Carboxymethyl chitosan Methacryloyl requires the presence of a photoinitiator LAP to self-assemble into fibrous hydrogels, targeting bioactive adhesion sites and providing inherent support for tissue cells along with biodegradability. Its applications include cell culture, bio 3D printing, and tissue engineering.
Targets(IC50)	Others

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