

GelMA (90% methacrylation)

Chemical Properties

CAS No. : 2280018-77-9

Formula:

Molecular Weight:

Store at low temperature

Storage: 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	GelMA (Gelatin Methacryloyl), with a methacrylation degree of 90%, is a derivative obtained from the reaction of gelatin with chitin anhydride (methacrylic anhydride, MA). The hydrogel formed by Gelatin Methacryloyl exhibits excellent biocompatibility and biodegradability, along with light cross-linking capability and adjustable physical properties. Under the influence of the photoinitiator LAP (HY-44076), GelMA, 90% methacrylation, self-assembles into fibrous hydrogels targeting bioactive adhesion sites, providing inherent support and biodegradation activity to tissue cells. Its applications include cell culture, biological 3D printing, tissue engineering, drug delivery, and biosensor development.
Targets(IC50)	Others

Reference

Yue K, Trujillo-de Santiago G, Alvarez M M, et al. Synthesis, properties, and biomedical applications of gelatin methacryloyl (GelMA) hydrogels[J]. Biomaterials, 2015, 73: 254-271.

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