



Product Information

Customized responsive hydrogels

Cat. No.: X26-04-ZQ2255

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: Tailored smart gel; Custom stimuli-responsive network; Adaptive hydrogel

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Customized responsive hydrogels are tailor-made materials designed to react to specific external triggers like light, electric fields, or chemicals. The composition is precisely engineered by selecting monomers with functional groups sensitive to the desired stimulus. The structure undergoes rapid and reversible changes in volume, color, or conductivity when triggered.
Source	Custom synthesis
Form	Solid
Purity	≥95%
Impurities	No visible impurities to the naked eye.
Identity	HPLC/MS/NMR
Stability	This product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	This product can be used for the development of soft actuators, the design of responsive laboratory equipment, and the study of smart material systems.
Storage	Store at -20°C.