



Product Information

Glucose transporter enzyme-functionalized gold nanorods (GLUT-AuNRs)

Cat. No.: X26-06-ZQ1023

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

Synonym: GLUT-AuNRs; Glucose transporter-functionalized gold nanorods; GLUT-modified rod-shaped gold nanoparticles

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

Product Information

Description	Glucose transporter enzyme-functionalized gold nanorods (GLUT-AuNRs) are protein-metal nanoconjugates where an anisotropic gold core is modified with glucose transporter enzyme configurations. The immobilized enzymes are oriented to expose their functional substrate-binding domains to the liquid phase. This product displays distinct optical characteristics that are highly sensitive to sugar binding events happening at the nanorod perimeter.
Source	Custom synthesis
Functional Group	Glucose transporter enzyme
Form	Solid or powder
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 to investigate enzyme substrate-binding kinetics using localized surface plasmon resonance. This product can be used for developing highly selective colorimetric sugar sensors in non-clinical assays.
Storage	Store at -20°C.