



Product Information

Island-like silver nanostructure-decorated microporous organic framework (Ag island/MPOF)

Cat. No.: X26-06-ZQ2867

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

Synonym: Ag island/MPOF; Island-like silver nanostructure-decorated microporous organic framework materials; Island-like Ag nano-cluster loaded MPOF composites; Microporous organic framework supported island-like silver nanostructures

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

Product Information

Description	This material features a high-surface-area microporous organic framework (MPOF) template whose external crystal facets are decorated with disconnected, island-like silver (Ag) nanoclusters. The isolated island-like configuration creates localized, high-density electromagnetic "hot spots" at the metal-organic boundaries, while the underlying organic framework introduces a well-defined network of open micropores that accelerate fluid mass transport. This structural configuration prevents unselective cluster coalescing, maintaining high phase stability.
Source	Custom synthesis
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 study plasmonic electromagnetic field amplification at metal-organic interfaces, analyze molecular diffusion kinetics within microporous networks, and test heterogeneous catalyst configurations.
Storage	Store at -20°C.