

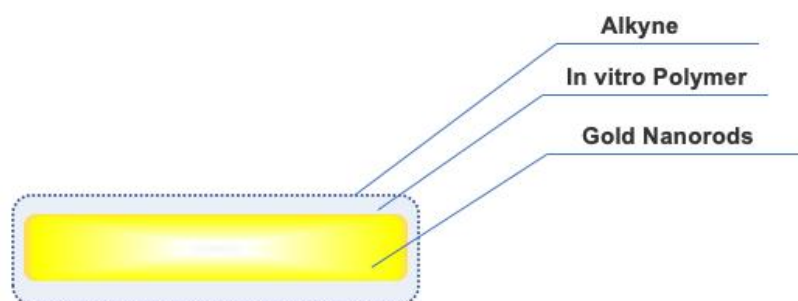


Conjugated Gold Nanorods for Click Chemistry-Alkyne PRODUCT DATA SHEET

Conjugated Gold Nanorods for Click Chemistry-Alkyne

Description

Conjugated Gold Nanorods for Click Chemistry Alkyne is a nanocomposite material prepared by conjugating alkynes onto the surface of gold nanorods through polyethylene glycol, widely used in click chemistry. This material has excellent high temperature resistance, salt resistance, acid and alkali resistance, as well as excellent load capacity, making it suitable for use in complex chemical environments. Alkynyl group is a carbon group with triple bonds, which has high reactivity and can participate in "click chemistry" reactions, forming stable triazole products with azides. The introduction of alkynyl groups enables efficient coupling and functionalization of gold nanoparticles with molecules containing azide groups. Conjugated Gold Nanorods for Click Chemistry Alkyne are widely used in diagnostic and imaging fields, exhibiting high sensitivity and selectivity in sensor applications, and can effectively detect and identify specific molecules or ions. In addition, Conjugated Gold Nanorods for Click Chemistry Alkyne also have important value in the biomedical field. The material has good biocompatibility, can be further functionalized on the surface, and can bind to various biomolecules, fluorescent dyes, or other functional groups. It is often used as a drug carrier or biological imaging agent and has good application prospects.



Abvigen Inc can provide high-quality Conjugated Gold Nanorods for Click Chemistry-Alkyne in various particle sizes. This product has uniform particle size and good chemical reactivity on the surface, suitable for click chemistry, and can meet various personalized material needs such as customer research and development, testing, and production consumption.



For custom sizes, formulations or bulk quantities please contact our customer service department.

Website: www.abvigen.com Phone: +1 929-202-3014 Email: info@abvigenus.com

Characteristics

OD value: 50 OD

Size: 1 g

Polymer Bridge: 10 PEG, 1K PEG, 3K PEG, 5K PEG, 20K PEG

Surface: Alkyne

Composition: Conjugated Gold Nanorods

Buffer: DI Water

Form: Suspension

Store: Storage at 2 - 8 °C

Storage

This product should be stored at 4°C. **DO NOT FREEZE.**

Properties of Conjugated Gold Nanorods for Click Chemistry-Alkyne

Diameter (nm)	Length (nm)	Peak SPR Wave (nm)	Peak LSPR Wave (nm)	Nanorods /mL	Wt. conc (ug/ml)	Peak SPR (nm)
5	21	808	510	2.39E+14	1750	794-829
5	19	780	510	2.67E+14	1750	765-794
5	15	700	510	3.47E+14	1750	675-725
10	175	2100	510	6.73E+12	1750	1900-2300
10	102	1400	510	1.17E+13	1750	1300-1500
10	81	1200	510	1.48E+13	1750	1132-1300
10	67	1064	510	1.81E+13	1750	1022-1132
10	59	980	510	2.09E+13	1750	965-1022
10	55	950	510	2.22E+13	1750	925-965
10	50	900	510	2.47E+13	1750	875-925
10	45	850	510	2.78E+13	1750	829-875
10	41	808	510	3.10E+13	1750	794-829
10	38	780	510	3.36E+13	1750	765-794

10	35	750	510	3.70E+13	1750	725-765
10	29	700	510	4.44E+13	1750	675-725
10	24	650	510	5.55E+13	1750	625-675
10	19	600	510	7.40E+13	1750	575-625
25	245	1400	514	1.12E+12	2500	1232-1500
25	137	1064	514	2.05E+12	2500	1022-1232
25	119	980	514	2.39E+12	2500	965-1022
25	102	950	514	2.82E+12	2500	925-965
25	96	900	514	3.01E+12	2500	875-925
25	93	850	514	3.12E+12	2500	829-875
25	90	808	514	3.24E+12	2500	794-829
25	87	780	514	3.36E+12	2500	765-794
25	85	750	514	3.45E+12	2500	725-765
25	75	700	514	3.96E+12	2500	675-725
25	71	650	514	4.22E+12	2500	625-675
25	57	600	514	5.43E+12	2500	575-625
25	34	550	514	1.01E+13	2500	525-575
40	208	850	520	5.30E+11	2500	1022-1232
40	180	850	520	6.19E+11	2500	875-1022
40	148	850	520	7.67E+11	2500	829-875
40	134	808	520	8.56E+11	2500	794-829
40	124	780	520	9.33E+11	2500	765-794
40	112	750	520	1.05E+12	2500	725-765
40	92	700	520	1.31E+12	2500	675-725
40	80	650	520	1.55E+12	2500	625-675
40	68	600	520	1.89E+12	2500	575-625
40	60	550	520	2.21E+12	2500	525-575
50	245	1064	530	2.89E+11	2500	980-1232
50	145	808	530	5.15E+11	2500	750-850
50	110	700	530	7.08E+11	2500	650-750
50	100	600	530	7.93E+11	2500	550-650



70	120	750	530	3.49E+11	2500	700-800
70	105	650	530	4.13E+11	2500	600-700
70	91	550	530	4.98E+11	2500	500-600

Advantage

Uniform particle size

Good high temperature resistance

Good acid and alkali resistance

High load capacity

High selectivity

Applications

Biological imaging

Drug delivery

Biological diagnosis

Biosensors

Biocatalysis

Ordering Information

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