



Conjugated Spherical Gold Nanoparticles for Click Chemistry-Alkyne PRODUCT DATA SHEET

Conjugated Spherical Gold Nanoparticles for Click Chemistry-Alkyne

Description

Conjugated Spherical Gold Nanoparticles for Click Chemistry-Alkyne is a novel nanomaterial that combines the excellent optical properties of gold nanospheres with the chemical reactivity of Alkynes. Alkyne 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 Alkyne group enables effective coupling and functionalization of gold nanoparticles with molecules containing azide groups. This material has broad potential applications in fields such as biological imaging, drug delivery, and catalysis. This material has the advantages of good chemical stability, good biocompatibility, etc. It can be functionalized through click chemical reactions, enhancing its application effect in precise treatment and diagnosis. Commonly used as drug carriers or biological imaging agents, it has good application prospects.

Abvigen Inc can provide high-quality Conjugated Spherical Gold Nanoparticles 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 Spherical Gold Nanoparticles

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 Spherical Gold Nanoparticles for Click Chemistry-Alkyne

Diameter (nm)	SPR Wavelength (nm)	NPS/ml	Molarity (pM)	Moles	Molar Ext. (M-1cm-1)	Absorption Molar Ext. (M-1cm-1)	Size Dispersity
1.8	N/A	4.25E+16	7.10E+07	7.09E-08	7.05E+05	7.05E+05	<35%
2.2	N/A	2.33E+16	3.90E+07	3.88E-08	1.29E+06	1.29E+06	<25%
3	N/A	9.19E+15	1.50E+07	1.53E-08	3.26E+06	3.26E+06	<20%
4	N/A	3.88E+15	6.50E+06	6.46E-09	7.74E+06	7.74E+06	<20%
5	512	1.99E+15	3.30E+06	3.31E-09	1.51E+07	1.51E+07	<20%
10	516	2.48E+14	4.10E+05	4.14E-10	1.21E+08	1.21E+08	<15%
15	518	7.35E+13	1.20E+05	1.23E-10	4.08E+08	4.08E+08	<15%
20	520	3.10E+13	5.20E+04	5.17E-11	9.67E+08	9.67E+08	<10%
25	521	1.59E+13	2.60E+04	2.65E-11	1.89E+09	1.89E+09	<10%
30	523	9.19E+12	1.50E+04	1.53E-11	3.26E+09	3.26E+09	<6%
35	526	5.79E+12	9.60E+03	9.65E-12	5.18E+09	5.18E+09	<6%
40	527	3.88E+12	6.50E+03	6.46E-12	7.74E+09	7.72E+09	<4%
45	529	2.72E+12	4.50E+03	4.54E-12	1.10E+10	1.08E+10	<4%
50	531	1.99E+12	3.30E+03	3.31E-12	1.51E+10	1.45E+10	<4%
55	533	1.49E+12	2.50E+03	2.49E-12	2.01E+10	1.88E+10	<4%
60	536	1.15E+12	1.90E+03	1.91E-12	2.61E+10	2.36E+10	<4%
65	539	9.04E+11	1.50E+03	1.51E-12	3.32E+10	2.89E+10	<4%



70	542	7.23E+11	1.20E+03	1.21E-12	4.15E+10	3.44E+10	<4%
75	545	5.88E+11	9.80E+02	9.80E-13	5.10E+10	4.00E+10	<4%
80	549	4.85E+11	8.10E+02	8.08E-13	6.19E+10	4.54E+10	<4%
85	553	4.04E+11	6.70E+02	6.73E-13	7.42E+10	5.03E+10	<4%
90	558	3.40E+11	5.70E+02	5.67E-13	8.81E+10	5.44E+10	<4%
95	563	2.89E+11	4.80E+02	4.82E-13	1.04E+11	5.72E+10	<4%
100	569	2.48E+11	4.10E+02	4.14E-13	1.21E+11	5.82E+10	<4%
150	612	7.35E+10	1.20E+02	1.23E-13	4.08E+11	0.00E+00	<4%
200	N/A	3.10E+10	5.20E+01	5.17E-14	9.67E+11	0.00E+00	<4%
500	N/A	1.99E+09	3.30E+00	3.31E-15	1.51E+13	0.00E+00	<4%
1000	N/A	2.48E+08	4.10E-01	4.14E-16	1.21E+14	0.00E+00	<4%
1500	N/A	7.35E+07	1.20E-01	1.23E-16	4.08E+14	0.00E+00	<4%

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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