



## PRODUCT DATA SHEET

### Red Silica Fluorescent Particles-COOH

#### Description

Abvigen provides silica particles with a high amount of covalently bound fluorescence dye in the silica matrix. The fluorescent silica particles we offer consist of ultra-monodisperse spherical silica particles loaded with a fluorescent dye, providing fluorescence capabilities comparable to heavy metal quantum dots (which are generally classified as toxic), with excitation/emission values dependent on the dye/color.

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These particles have wide applications in flow cytometry, lateral flow assay, gene sequencing and many other bioassay development. These fluorescent multifunctional particles can include various fluorescent dyes from UV region to near IR, include coumarin, fluoresceins, rhodamines, cyanine dyes, alexa fluor dyes. Customer conjugation and modification is available upon request.

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

**website:** [www.abvigen.com](http://www.abvigen.com) **Phone:** +1 929-202-3014 **Email:** [info@abvigenus.com](mailto:info@abvigenus.com)

#### Details

Concentration: 10 mg/ml

Size: 10 ml; 20 ml; 50 ml; 100 ml

Surface: COOH

Shape: Spherical

Density: 2.0 g/ccm

Composition: Red Silica Fluorescent Particles-COOH

Excitation: 620 nm

Emission: 680 nm

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Buffer: DI Water

Form: Suspension

Store: Storage at 2 - 8 °C

### Highlights

Produced by hydrolysis of orthosilicates and related compounds,

Contain a high amount of covalently bound fluorescence dye in the silica matrix

Stable in organic solvents and buffers

No toxic effects come from the covalently bound fluorescence dyes

Available with red fluorescence, green fluorescence, blue fluorescence and Orange fluorescence

### Applications

Fluorescent imaging and multimodal imaging

Flow cytometry

Drug and gene delivery

Immunoassays and biosensors

Theranostic platform

Disease treatment

Nanomedicine and nanotoxicology

### Storage

This product should be stored at room temperature. **DO NOT FREEZE**. If stored unopened and as specified, Abvigen Red Silica Fluorescent Particles-COOH are stable for at least 12 months.

### Ordering Information

website: [www.abvigen.com](http://www.abvigen.com)

Phone: +1 929-202-3014

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