

Cat. No. MF-FRE-0060

## Red FluoroNanoQ

### Product Description

Red FluoroNanoQ is magnetic bead with red fluorescent dye. The magnetic bead consists of single-crystal  $\text{Fe}_3\text{O}_4$  magnetic sphere core and being coated with dextran dispersed in phosphate buffered saline (PBS) solution.

The Red FluoroNanoQ can be introduced into cells by microinjection, it can use to microscopy, flow cytometry, and magnetic resonance imaging (MRI). This product is highly hydrophilic, bio-compatible, and easy to use for cellular imaging research.

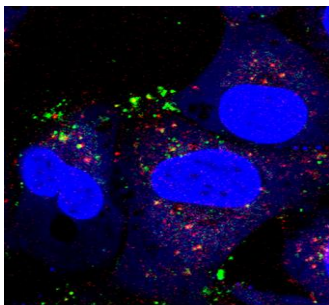


Figure 1. Uptaking of Red FluoroNanoQ into HT1080 cells. Green color is liposome; Blue color is nucleus; Red color is our product, Red FluoroNanoQ.

### Specifications

- I. Core material:  $\text{Fe}_3\text{O}_4$
- II. Surface coating: Dextran
- III. Surface functional group: Red fluorescent dye
- IV. Concentration: 8 mg-Fe/mL
- V. Particle size: 50 ~ 60 nm
- VI. Storage buffer: pH-7.4 PBS
- VII. Em Maxima: 583 nm (See Figure 2.)
- VIII. Excitation laser line: 532 or 568 nm
- IX. Extinction coefficient: 100,000
- X. Flow cytometry laser line: 488, 532, or 561 nm
- XI. Microscopy laser line: 568 nm

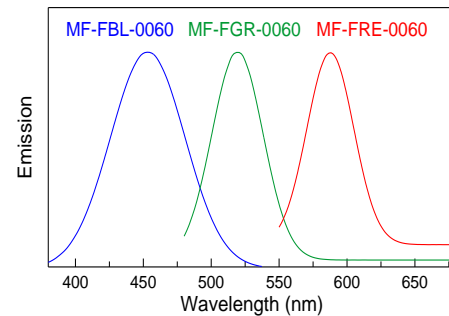


Figure 2. Emission spectra of FluoroNanoQ.

### Storage

Please keep the product at 2-8°C. The validity is warranted for 3 months.

### Contact Information

Please contact us when you have any question or comments via e-mail: [info@magqu.com](mailto:info@magqu.com), or phone: +886-2-8667-1897.

### Remarkable Notes

1. Please keep the reagent away from magnets during storage.
2. Do not freeze.
3. Protect from light.
4. The product is for research use only.

# Product Information

## Magnetic Qbeads Series

Products	Cat. No.
Qbeads-Protein A	MF-PRA-3000
Qbeads-Protein G	MF-PRG-3000
Qbeads-NTA-Ni	MF-HIS-3000
Qbeads-Streptavidin	MF-STA-3000
Qbeads-Silica	MF-SIL-5010 MF-SIL-5024
Qbeads-Hydroxyl	MF-DEX-3000
Qbeads-Carboxyl	MF-COO-3000
Qbeads-Amine	MF-NHH-3000
Qbeads-Carboxyl Labeling Kit	KT-COO-3000-5SE

## Accessory

Products	Description	Cat. No.
Magdorf	for 1.5 ml eppendorf tube	MDF-08
	for magnetic separating column	MSD-01
Magstand	for 15 ml falcon tube	MSD-15
	for 50 ml falcon tube	MSD-50
Magtractor	for 96-well culture plates	MTR-96
	for 24-well culture plates	MTR-24
	for 6-well culture plates	MTR-06

## Magnetic NanoParticle Series

Products	Particle size	Cat. No.
Magnetic Fluid- Hydroxyl	30 nm	MF-DEX-0030
	60 nm	MF-DEX-0060
	90 nm	MF-DEX-0090
Magnetic Fluid- Carboxyl	30 nm	MF-COO-0030
	60 nm	MF-COO-0060
	90 nm	MF-COO-0090
Magnetic Fluid- Amine	30 nm	MF-NHH-0030
	60 nm	MF-NHH-0060
	90 nm	MF-NHH-0090
NanoQ-Carboxyl Labeling Kit	60 nm	KT-COO-0060-1SE

## Fluorescent Magnetic Nanoparticles

Products	Particle size	Cat. No.
Blue FluoroNanoQ	60 nm	MF-FBL-0060
Green FluoroNanoQ	60 nm	MF-FGR-0060
Red FluoroNanoQ	60 nm	MF-FRE-0060

## Customized Conjugation Service

Products	Particle size	Cat. No.
<b>Customized conjugated magnetic beads</b>	3 $\mu$ m	MF-CCS-3000
	30 nm	MF-CCS-0030
Antibody or peptide provided by customers (100 ug)	60 nm	MF-CCS-0060
	90 nm	MF-CCS-0090



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