

Product Data Sheet

Product Name: FerroOrange (Fe²⁺ indicator)
Cat. No.: GC19943

Chemical Properties

Cas. No.

Formula M.Wt

Solubility Storage Store at 2-8°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure FerroOrange (Fe²⁺ indicator)

Protocol

1.1 将FerroOrange溶于DMSO中，配成1mM的母液。

1.2 将FerroOrange(24μg)溶于35μL DMSO中，配成1mM的母液。母液可于-20°C保存。

1.3 将母液加入含有1mM FerroOrange的溶液(终浓度:1uM)中，即可使用。

2. 实验步骤

2.1. 将细胞接种到含有37°C 5% CO₂的培养箱中。

2.2. 将细胞接种到含有HBSS的培养箱中。

2.3. 将细胞接种到含有37°C 5% CO₂的培养箱中。

* 实验结果

2.4. 将1 μM的FerroOrange加入含有37°C 5% CO₂的培养箱中。

* 将FerroOrange加入含有37°C 5% CO₂的培养箱中。

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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2.5.

3.

3.1 1×10^5 HeLa MEM 10% 1% - 6 37°C 5% CO₂

3.2 2 mL

3.3 1 mL 10mM 10μL 100μM

3.4 37°C 20 HBSS 1 mL

3.5 250 μL 1 mL 1.25

3.6 1,500 / 3

3.7 HBSS 1 mL

3.8 1,500 / 3

3.9 1μM FerroOrange MEM 300μL

3.10 37°C 15-30

3.11

4.

4.1 : G Cv3

4.2 : 532nm 514nm 561nm 488nm 580nm

1 FerroOrange HeLa

5.

5.1

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1. A (HeLa)

2. B 2,2'-bipyridyl (Bpy) GC61754 HeLa

3. C (GC20135) HeLa

5.2 96 (100) 100 μl HeLa 10,000 cells/well 37°C 5% CO₂

5.3 MEM (FBS) 100 μl 3

5.4 C 100 μl (II)/MEM (FBS) (100 μM) 37°C 5% CO₂ 30

5.5 100 μl HBSS 3

5.6 A C 100 μl 1 μM FerroOrange working solution B 100 μl FerroOrange (1 μM) Bpy (100 μM) HBSS 37°C 5% CO₂ 30

5.7 (Ex:543 nm, Em:580 nm)

1

2

Background

FerroOrange (Fe²⁺ indicator) Fe²⁺ 543nm/580 nm FerroOrange Fe²⁺ Fe²⁺ Fe³⁺ Fe²⁺ Fe²⁺ Fe³⁺

1

3 2 μl 1 mM FerroOrange 2 μl 10 mM 1 ml 50 mM HEPES pH 7.4 1

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Q4 FerroOrange 激发/发射 543/580 nm

常见问题Q&A

Q1: FerroOrange 的激发/发射波长是多少?

A1: FerroOrange 的激发/发射波长是 543/580 nm

Q2: FerroOrange 的溶解性如何?

A2: FerroOrange 可溶于 DMSO

Q3: 如何储存 FerroOrange?

A3: 1. 避光保存 2. 密封保存 3. 低温保存 FerroOrange

Q2: 如何检测 FerroOrange 的荧光? Bpy 2,2` 的激发/发射波长是多少? FerroOrange 的激发/发射波长是多少?

Q4: FerroOrange 的稳定性如何?

A4: 稳定性良好

如何检测 FerroOrange 的荧光? PFA 3% 4°C 10 min 20 min

