

## FerroOrange

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

Description	FerroOrange is a fluorescent probe designed to detect labile ferrous ions, localizing specifically to the endoplasmic reticulum. Upon interaction with ferrous ions, it irreversibly emits an orange fluorescence. The excitation/emission wavelengths are 542/572 nm.
Targets(IC50)	Others
In vitro	<p>To prepare the solution, add 35 <math>\mu</math>L of DMSO to a tube containing 24 <math>\mu</math>g of FerroOrange and mix thoroughly with a pipette to create a 1 mM FerroOrange solution. Dilute this 1 mM FerroOrange solution with HBSS to obtain a 1 <math>\mu</math>M FerroOrange working solution. Note that the 1 mM FerroOrange stock solution can be stored at -20°C for up to one month, while the working solution is unstable and should be used immediately. If necessary, serum-free media may be used instead of HBSS to reduce background. For the procedure, culture cells in a fluorescence dish overnight at 37°C with 5% CO<sub>2</sub>. Remove the supernatant and wash the cells three times with HBSS or serum-free medium. Replace with medium containing the drug and culture at 37°C with 5% CO<sub>2</sub>, adjusting culture time as needed. Remove the medium and wash three times with HBSS or serum-free medium. Add the 1 <math>\mu</math>M FerroOrange working solution and incubate at 37°C with 5% CO<sub>2</sub> for 30 minutes. No washing is required; proceed directly to observation under a fluorescence microscope.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

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