

## Fura-2 pentasodium

## 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	Fura-2 pentasodium is a ratiometric fluorescent dye utilized for intracellular calcium ion imaging, with a Kd value of 140 nM. Its emission wavelength is 510 nm, and it features excitation wavelengths of 340 nm and 380 nm. The fluorescence intensity ratio of 340/380 is directly proportional to the intracellular Ca <sup>2+</sup> (calcium ion) levels.
Targets(IC50)	Others
In vitro	Fura-2 (10 µM, 2 min) pentasodium is utilized for detecting calcium ion concentration fluctuations in heparinized peripheral blood neutrophils. Fura-2 pentapotassium (10 µM, 5 min) serves as a calcium probe to assess the distribution of calcium ions in cardiac mitochondria without affecting its activity in rats.

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