

## Fluo-5N, pentapotassium Salt \*Cell impermeant\*

Catalog number: 20567  
Unit size: 500 ug

### Product Details

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

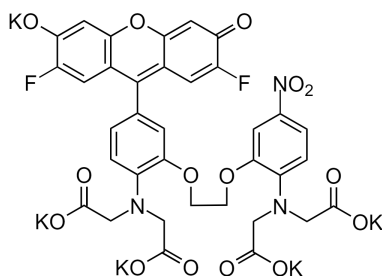
### Chemical Properties

Appearance Orange solid

Molecular Weight 958.06

Soluble In Water

Chemical Structure



### Spectral Properties

Excitation Wavelength 494 nm

Emission Wavelength 516 nm

### Applications

Fluo-5N is an analog of Fluo-4 with lower calcium-binding affinity ( $K_d = \sim 90 \mu\text{M}$ ), making it suitable for detecting intracellular calcium levels in the range of  $1 \mu\text{M}$  to  $1 \text{ mM}$  that would saturate the response of Fluo-4. Cells may be loaded with Fluo-5N AM ester (#20566) by adding the dissolved indicator directly to dishes containing cultured cells. It is compatible with excitation at 488 nm by argon-ion laser sources, making Fluo-5N useful for confocal microscopy, flow cytometry, and microplate screening applications. It has excitation and emission wavelengths at 494 and 516 nm respectively. Upon calcium binding, its fluorescence intensity increases by >100 fold.