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## Product Information Sheet

### Ordering Information

Product Number: 20643  
Product Name: Calbryte™-520XL azide  
Unit Size: 1 mg  
Storage Conditions: Freeze (<-15 °C), Desiccated, Avoid Light  
Expiration Date: 12 months upon receiving

### Chemical and Spectral Properties

Appearance: Solid  
Molecular Weight: 1129.36  
Soluble In: DMSO  
Excitation Wavelength: 492  
Emission Wavelength: 514

### Application Notes

Calbryte 520XL is a new fluorescent calcium indicator with extremely low affinity ( $K_d \sim 300 \mu\text{M}$ ) which is similar to the well-known Rhod 5N, but much more stable than Rhod-5N. Calbryte 520XL produces bright fluorescence signal in the presence of calcium ion in high concentration. It has the identical excitation and emission wavelength as Fluo-4, thus the same Fluo-4 assay settings can be readily applied to Calbryte 520XL-based calcium assays. Calbryte 520XL is an excellent alternative to Rhod-5N. Calbryte 520XL azide can be readily conjugated to a carrier through the well-known click chemistry.