

6-ROXtra™ acid

Catalog number: 386

Unit size: 25 mg

Product Details

Storage Conditions Freeze (< -15 °C), Minimize light exposure

Expiration Date 12 months upon receiving

Chemical Properties

Appearance Solid

Molecular Weight 730.77

Soluble In DMSO

Spectral Properties

Excitation Wavelength 578 nm

Emission Wavelength 595 nm

Applications

Although ROX dyes have strong fluorescence they are notoriously unstable. Some commercial samples only have a few months' shelf life. Compared to 6-ROX labeling compounds our 6-ROXtra™ dyes have greatly enhanced stability while they have essentially identical spectral properties to those of 6-ROX when conjugated to a biological substrate (such as oligonucleotides). In addition, our 6-ROXtra™ dyes are much more water-soluble than 6-ROX dyes that are essentially insoluble in water and aqueous buffers. Our preliminary studies indicated that 6-ROXtra-derived oligos are more easily purified than the corresponding 6-ROX oligos in most cases. When conjugated to proteins, the fluorescence of 6-ROX is severely quenched while 6-ROXtra™ still shows strong fluorescence.