

## Product Information Sheet

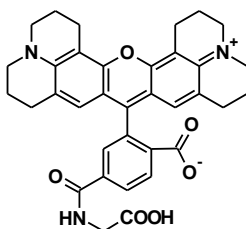
### Ordering Information

Product Number:	395
Product Name:	6-ROX Glycine *25 $\mu$ M PCR fluorescence reference solution*
Unit Size:	5 ml
Storage Conditions:	<-15 °C and kept from light
Expiration Date:	12 months upon receiving

### Chemical, Physical and Spectral Properties

Molecular Weight:	591.65
Appearance:	Purple solution in 20 mM Tris (pH 8.4), 0.1 mM EDTA and 0.01% Tween <sup>®</sup> 20

Chemical Structure:



Soluble in:	20 mM Tris (pH 8.4)
Excitation Wavelength:	575 nm
Emission Wavelength:	602 nm

### Protocol

6-ROX is predominately used as a reference dye for performing PCR detections. However, 6-ROX is very unstable compared to other rhodamine dyes. 6-ROX glycine has improved stability. The 6-ROX glycine has the similar spectral properties to those of 6-ROX. This 6-ROX dye is 25  $\mu$ M solution in 20 mM Tris (pH 8.4), 0.1 mM EDTA and 0.01% Tween<sup>®</sup> 20.

1. Set up quantitative PCR / RT-PCR reactions according to the protocol provided with each PCR reagent system. Optimum cycling parameters vary with PCR composition and thermal cycler. Multiple reactions must be assembled as a master mixture.
2. Include 1  $\mu$ L of ROX Reference Dye for each 50- $\mu$ L PCR. Adjust volumes as appropriate to account for addition of the reference dye.
3. Mix thoroughly prior to addition to the master mixture.