

Lot # XXXXX

## MATERIAL DATA SHEET

### Ubiquitin-Lys-TAMRA (Ub-Gly-Gly<sub>76</sub>-ε-Lys-TAMRA-Gly-OH) Cat. # U-558

Fluorescence polarization high-throughput screening (HTS) reagent which is based on a 5-tetramethylrhodamine (TAMRA) modified Lys-Gly sequence that is linked to Ubiquitin via a native isopeptide bond with the lysine side-chain. This reagent is useful for studying Ubiquitin C-terminal hydrolytic activity when detection sensitivity or continuous monitoring of activity at longer wavelengths is essential.

#### Product Information

<b>Quantity:</b>	50 µg
<b>MW:</b>	9163 Da
<b>Stock:</b>	2.3 mg/ml (250 µM) in DMSO
<b>Purity:</b>	> 95% by HPLC

#### Use & Storage

**Use:** Ubiquitin-Lys-TAMRA is ideal for use as a substrate for Ubiquitin-specific hydrolases. We recommend an assay buffer consisting of 50 mM HEPES pH 7.5, 150 mM NaCl, 2 mM DTT. Fluorescence can be monitored with an excitation wavelength of 544 nm and an emission wavelength of 572 nm in fluorescence polarization mode. Reaction conditions will need to be optimized for each specific application. We recommend an initial Ubiquitin-Lys-TAMRA concentration of 10-50 nM.

**Storage:** Store at -80°C. Avoid multiple freeze/ thaw cycles.

#### Literature

**References:** Hassipen U., *et al.* (2007) *Anal. Biochem.* **371**:201-207  
Lavis L.D., *et al.* (2006) *ACS Chemical Biology* **4** : 252-260  
Tirat A., *et al.* (2005) *Anal. Biochem.* **343**:244-255

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