

## 5-carboxyRh110-SUMO2 (human sequence, synthetic)

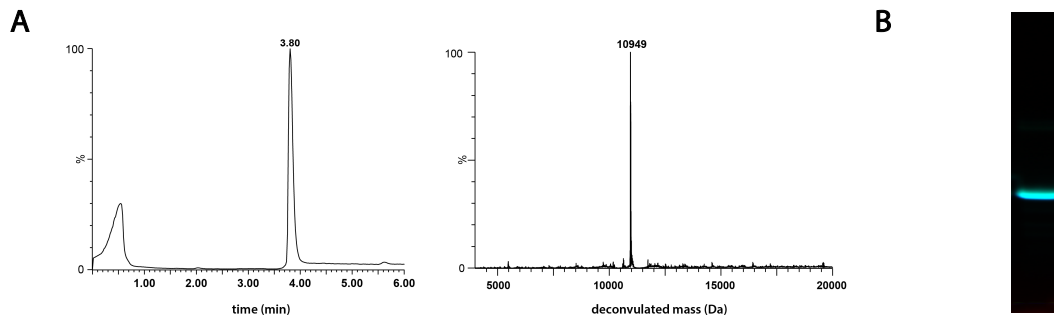
UbiQ code : UbiQ-134  
Batch # : B01102015-001  
Amount : 50 ug, lyophilized powder  
Purity :  $\geq 95\%$  by RP-HPLC  
Mol. Weight : 10.94 kDa  
Storage : upon arrival powder at  $-20^{\circ}\text{C}$ ; solution at  $-80^{\circ}\text{C}$ . Please avoid multiple freeze/thaw cycles.

## Productsheet

**Background.** UbiQ-134 is based on the human SUMO2 sequence (Cys48Ser). The N-terminus is functionalized with a 5-carboxyrhodamine110 dye ( $\lambda_{\text{ex}} = 480 \text{ nm}$ ;  $\lambda_{\text{em}} = 520 \text{ nm}$ ) allowing for a sensitive and fast (in-gel fluorescence) detection of SUMO2 processing.

### Sequence

**cRh110-**MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYSERQGLSMRQIRFRFDGQPINETDTPAQLEMEDEDITDVFQQQTGG



**A: LC-MS analysis.** Mobile phase A = 1%  $\text{CH}_3\text{CN}$ , 0.1% formic acid in water (milliQ) and B = 1% water (milliQ) and 0.1% formic acid in  $\text{CH}_3\text{CN}$ . XBridge BEH300 C18  $5\mu\text{m}$   $4.6 \times 100\text{mm}$ ; flow rate = 0.8 mL/min, runtime = 10 min, column T =  $40^{\circ}\text{C}$ . Gradient: 30%  $\Rightarrow$  60% B over 3.5 min. **B: SDS-PAGE analysis.** Fluorescence scan 12% Bolt Bis-Tris Plus gel (Life technologies) and MES running buffer.

## Important: sample preparation

- dissolve the powder in as little DMSO as possible (e.g. 40 mg/mL)
- add this DMSO stock slowly to milliQ (please note the order of addition)
- buffer the aq. solution as desired (final stocks of e.g. 0.5 mg/mL will contain 1.25 vol% DMSO)
- buffer exchange using 3 kDa spin filters or dialysis membrane allows total removal of DMSO if desired.