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Ub-Rhodamine 110

Cat. # M3020, M3021, M3022

Species: Human

Source: Synthetic

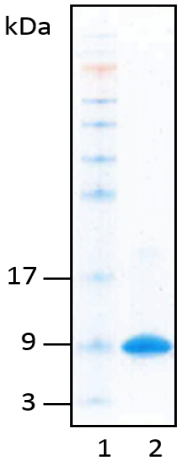
MW: 8936 Da by MS

Stock: 20 mM Tris, 150 mM NaCl, 2 mM βME, 10% Glycerol

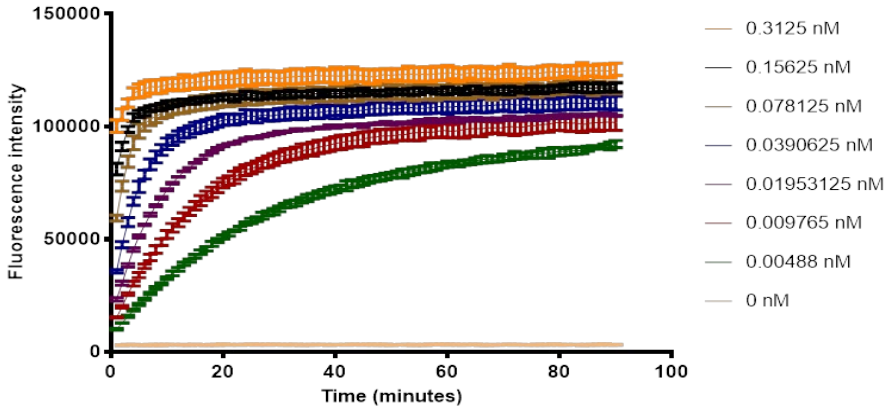
Quality Assurance: ≥95% by RP-HPLC and SDS-PAGE

Description: Ub-Rhodamine 110 is a quenched, fluorescent substrate for deubiquitinating enzymes. Cleavage of the amide bond between the C-terminal glycine of ubiquitin and rhodamine110 results in an increase in rhodamine fluorescence at 535 nm (Exc. 485 nm).

Images:



Coomassie-stained SDS-PAGE
Lane 1: Molecular weight markers
Lane 2: Ub-Rhodamine 110



Activity assay of Ub-Rhodamine 110 (100 nM) with varying concentrations UCH-L3 (5 - 313 pM).

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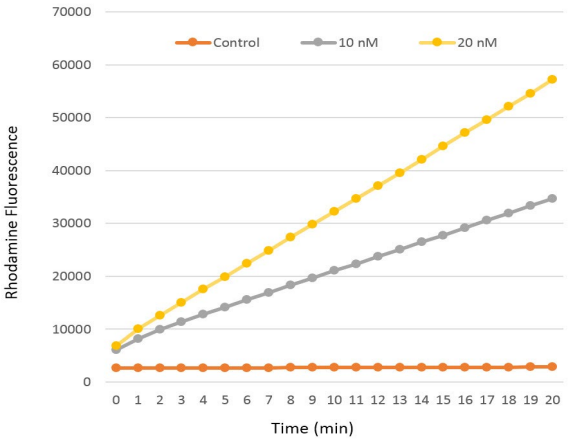

Reaction buffer: 20 mM Tris, pH 7.1 at 37 °C, 150 mM NaCl, 2 mM DTT. Reactions contained 0.5 µM Ub-Rhodamine 110 alone (control, brown line), or with 10 nM GST-Usp15 (gray line) or with 20 nM GST-Usp15 (yellow line). Rhodamine110 fluorescence was monitored by using a plate reader with excitation/emission filters at 485/20 and 530/30 nm, respectively.

Storage: −80°C. Protect from light and avoid multiple freeze/thaw cycles.

Sample Preparation: Dilute the stock solution into required buffer. Typical reaction concentrations vary from 0.1 - 1 µM

Literature:

1. A. Tirat *et al* ., (2005) Anal. Biochem., 343, 244-255.
2. U. Hassiepin *et al* ., (2007) Anal. Biochem., 371, 201-207.