

Active Recombinant Human UBB protein

Cat. No. UBB-209H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human UBB was expressed in E. coli.

Species Human

Source E.coli

Description

Linkage specific poly-Ubiquitin chains may be used as a substrate for in vitro reactions with deubiquitinating enzymes ("DUB's") that cleave the peptide or isopeptide linkage between adjacent Ubiquitin molecules. K63-linked tetra-Ubiquitin chains are manufactured using recombinant wild-type human Ubiquitin and linkage-specific enzymes. The use of purely enzymatic techniques avoids the potential for contaminating synthetic intermediates. This fluorogenic substrate is intended for use with deubiquitinating enzymes that are unable to use mono-Ubiquitin-Rh110 as a substrate, or enzymes with activity that is stimulated by poly-Ubiquitin chains. The substrate consists of a K63-linked tetra-Ubiquitin chain with a single rhodamine attached to the C-terminus of the proximal Ubiquitin.

Form X mg/ml (X μ M) in 50 mM HEPES pH 7.0, 50 mM NaCl

Bio-activity

K63-linked tetra-Ubiquitin Rhodamine 110 is ideal for use in assays requiring fluorescent detection of deubiquitinase activity. Optimal fluorescence at pH 8.0 is monitored with excitation and emission wavelengths of 485 nm and 535 nm, respectively. Reaction conditions will need to be optimized for each specific application. We recommend an initial concentration of 0.1-1 μ M.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Predicted Molecular Mass: 35 kDa
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Protect from light. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	UBB ubiquitin B [Homo sapiens]
Official Symbol	UBB
Synonyms	UBB; ubiquitin B; polyubiquitin-B; FLJ25987; MGC8385; polyubiquitin B; UBC; UBA52; RPS27A;
Gene ID	7314
mRNA Refseq	NM_018955
Protein Refseq	NP_061828
MIM	191339
UniProt ID	P0CG47

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