Di-ubiquitin (K^{63}-linked)

Polyubiquitin chains, linked through specific lysine residues, are useful tools for investigating, amongst other things, the specificity and reactivity of deubiquitinylating enzymes (DUBs) and the recognition and interaction of polyubiquitin modified proteins with by ubiquitin binding domain (UBDs) containing proteins.

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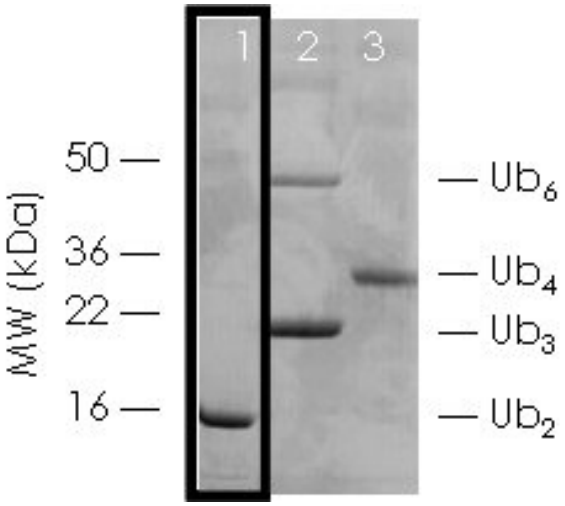
BML-UW0730-0050	50µg

Manuals, SDS & CofA View Online »



SDS-PAGE of di-ubiquitin Ub_2, K^{63}-linked (Lane **1**: Prod. No. BML-UW0730, 5µg), in comparison with Ub_3, K^{63}-linked (Lane **2**: Prod. No. BML-UW0745, 5µg) and Ub_4, K^{63}-linked (Lane **3**: Prod. No. BML-UW0715

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 12 months after receipt when stored at -20°C. It is recommended that the product be kept at a moderately high protein concentration (>1mg/mL) and in the presence of buffer. If a more dilute reagent is required, the inclusion of an inert carrier protein (e.g. ovalbumin at 0.5-1.0mg/mL) in the storage buffer is recommended in order to minimise loss of the reagent due to absorption.
Handling	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20°C.
Short Term Storage	-20°C
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Ub2
Application Notes	For use in deubiquitinylating enzyme assays and polyubiquitin binding studies. Suggested uses: 1. Deubiquitinylating enzyme substrates (general/linkage specific). 2. Investigation of polyubiquitin chain recognition by and interaction with ubiquitin binding proteins.
Formulation	Liquid. In 20mM TRIS-HCl, pH 7.5, containing 0.15M NaCl, 1mM EDTA.
MW	~17kDa
Purity	≥95% (SDS-PAGE)
Source	Protein components produced in *E. coli*. Synthesised enzymatically *in vitro.*
Technical Info / Product Notes	K^{63}-linked di-ubiquitin (Ub_2) is made by incubating E1 and Ubc13-Mms2 with equal concentrations of ubiquitin capped at the future proximal chain terminus (Asp^{77}-ubiquitin) and ubiquitin capped at the future distal chain terminus ($K^{48}R/K^{63}R$-ubiquitin). The distal terminus of the resulting dimer is de-blocked by treatment with yeast ubiquitin hydrolase-1 (YUH-1) followed by purification by anion exchange chromatography.

UniProt ID	P0CG47 (UBB), P0CG48 (UBC)

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