UbcH13/Mms2 (human), (recombinant) (His-tag)

A heterodimer composed of the catalytically active ubiquitin-conjugating enzyme UbcH13 and its catalytically inactive paralog hMms2, which lacks an active site cysteine residue.

The UbcH13/Mms2 complex catalyzes synthesis of Lys-linked, ubiquitin chains, which serve as non-proteolytic tags involved in error-free post-replicative DNA repair and NF-κB signal transduction.

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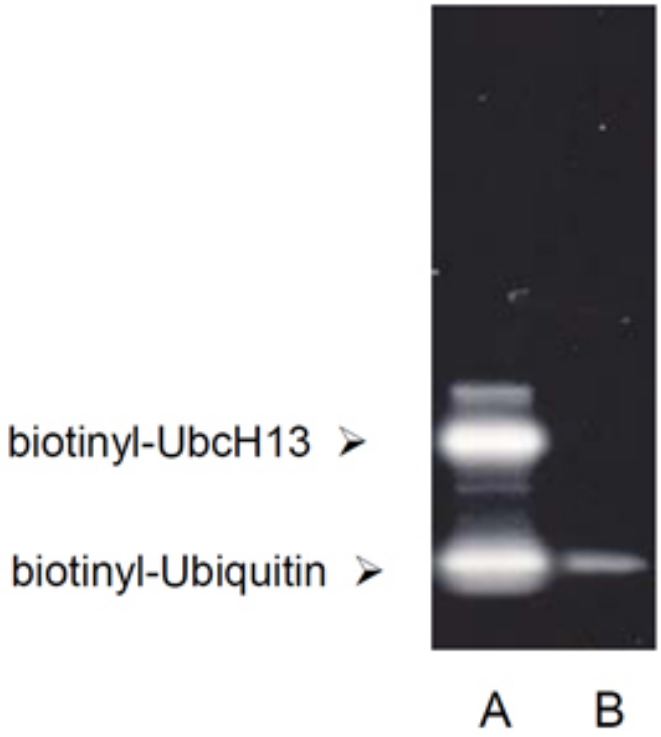
BML-UW9565-0100	100µg

Manuals, SDS & CofA View Online »



Due to similarities in molecular weight (18.4kDa and 16.4kDa) it is difficult to separate the two components on SDS-PAGE under standard conditions. UW9565 has been characterised in a thiolester assay [in the presence (A) and absence (B) of ATP] using biotinylated ubiquitin (product code UW8705) as shown opposite. Major bands observed are for biotinylated ubiquitin and the biotinyl-ubiquitin thiol ester linked UbcH13 as marked. Please note that, due to the efficiency of ubiquitin transfer under the conditions used, it is not possible to observe the presence of the biotinyl-ubiquitin thiol ester linked E1.

Handling & Storage

Handling	Avoid freeze/thaw cycles.
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application Notes	Typical enzyme concentration to support conjugation *in vitro* is 100nM to 1µM depending upon conditions.
Formulation	Liquid. In 50mM HEPES, pH 8.0, 50mM sodium chloride, 10% glycerol, 1mM DTT.
MW	~18.4kDa
Purity	≥95% (SDS-PAGE)
Source	Produced in *E. coli*.
UniProt ID	P61088 (UbcH13), Q15819 (Mms2)

Last modified: May 29, 2024

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