Ubiquitin Mutant K48R, *human recombinant*
Cat. # UM-K48R

Mutation of lysine 48 to arginine renders ubiquitin (Ub) unable to form poly-Ub chains via lysine 48 linkages with other Ub molecules. Ub K48R can form an E1-catalyzed active thioester at the C-terminus allowing the molecule to be transferred to the lysines of substrate proteins (mono-ubiquitination). Ideal for the reduction in poly-Ub chain length/conjugation rates and determining if poly-Ub chains are K48 linked.

### Product Information

<table>
<thead>
<tr>
<th>Quantity</th>
<th>1 mg, lyophilized powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW</td>
<td>8.5 kDa</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble and stable in aqueous buffers up to 10 mg/ml.</td>
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<tr>
<td>Purity</td>
<td>&gt; 95% by SDS-PAGE</td>
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</tbody>
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### Use & Storage

**Use:** Typical concentrations for non rate-limiting support of *in vitro* conjugation reactions range from 200 µM-1 mM depending on experimental conditions.

**Storage:** Store at -20°C after solubilization in desired buffer. Avoid multiple freeze/thaw cycles.

### Literature

**References:**

*For Laboratory Research Use Only, Not For Use in Humans*