

Ubiquitin K48R Human Recombinant Protein

Catalog Number: PROTP62988-2

Introduction

Ubiquitin is a highly conserved 76 amino acid protein expressed in all eukariotes. Ub is found either in free form or conjugated to proteins as monomer or as chain of ubiquitin molecules. The most well characterized consequence of polyubiquitination is substrate degradation, while mono-ubiquitinated proteins are not degraded. Ubiquitin attachment to protein substrate is a complex process involving a ubiquitin activating enzyme (E1), a ubiquitin conjugating enzyme (E2) and a ubiquitin protein ligase (E3). The first ubiquitin moiety is transferred to the e-NH₂ group of a Lys residue of the protein substrate to generate an isopeptide bond. In successive reactions, a poly ubiquitin chain is synthesized by processive transfer of additional activated moieties to Lys48 of the previously conjugated ubiquitin molecule. Ubiquitin K48R prevents the formation of poly ubiquitin chains via Lys48 linkages with mono ubiquitin molecules, avoiding the degradation of protein substrates.

Overview

Product Name	Ubiquitin K48R Human Recombinant Protein
Description	Recombinant human ubiquitin featuring a Lys 48 to Arg48 mutation is useful for the reduction of poly-Ub chain length and conjugation rates. Ubiquitin K48R is expressed in E.coli and purified by proprietary chromatographic techniques.
Size	5ug, 20ug, 1mg
Tag	
Form	Sterile Filtered clear solution.
Source	E. Coli
Formulation	Diluted in PBS plus 5% glycerol.

Concentration

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

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Usage

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