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Ubiquitin G76A Human

Catalog #:PRPS-287

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Description: Recombinant human ubiquitin featuring a Gly76 to Ala76 mutation that, by inhibiting the ubiquitin hydrolases, prevents the removal of ubiquitin from protein ubiquitin conjµgates. Ubiquitin G76A is expressed in E.coliand purified by ion-exchange chromatography.

Synonyms: Ubiquitin, Ribosomal Protein S27a, CEP80, UBA80, UBCEP1, UBCEP80, HUBCEP80, RPS27A, Ubiquitin G76A.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:
Diluted in PBS plus 5% glycerol.

Stability:
Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
The conserved 76 amino acid protein ubiquitin (Ub) regulates a host of intracellular processes throµgh its enzymatic conjµgation to other cellular proteins.Ubiquitination occurs throµgh sequential steps catalyzed by activating (E1), conjµgating (E2), and ligase (E3) enzymes. The final step results in the formation of an isopeptide bond between Ubs C-terminal glycine residue (G76) and a lysine residue of the target protein, althoµgh N-terminal ubiquitination is also known.Outcomes of this modification include destabilization of the conjµgated protein, altered protein trafficking and functional modulation.After targeting the protein for specific localizations, ubiquitin is released from the substrate by deubiquitinating enzymes.A mutant ubiquitin, having a Gly to Ala substitution at the C-terminus (G76A ubiquitin) supported several downstream reactions of the proteolytic pathway but inhibits the deubiquitination process.As consequence, the Ub derivative becomes irreversibly conjµgated to protein, shifting the equilibrium between the bound and unbound form in the direction of conjµgation, at the expense of the free form.

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