



Product Datasheet

Product Name	Ubiquitin Biotinylated Human Recombinant
Cata No	CB501486
Source	<i>Escherichia Coli.</i>
Synonyms	Ubiquitin, Ribosomal Protein S27a, CEP80, UBA80, UBCEP1, UBCEP80, HUBCEP80, RPS27A.

Description

Recombinant Human Ubiquitin having the accession number of P62988 was conjugated to Biotin. RPS27A is a small protein composed of 76 amino acids. RPS27A is found only in eukaryotic organisms among which shows strong sequence conservation. The RPS27A protein is present in all cell types, thus giving rise to its name. RPS27A is found either in free form or conjugated to proteins through a covalent bond between the glycine at the C-terminal end and the side chains of lysine.

The connection of multiple copies of RPS27A targets the proteins for degradation by the 26S proteasome. RPS27A ligation is an ATP-dependent multi-step process. RPS27A is activated by the E1 enzyme. The attachment of RPS27A to the target protein is catalyzed by the E2 enzyme acting in concert with E3 which is involved in the recognition of the substrate protein.

Recombinant Human RPS27A protein biotinylated with NHS-biotin produced in E.Coli is a single, non-glycosylated polypeptide chain containing a total of 76 amino acids and having a molecular mass of 8.6 kDa.

Physical Appearance

Sterile Filtered colorless liquid formulation.

Purity

RPS27A Protein biotinylation is determined by Western Blotting and ELISA analysis using streptavidin–HRP conjugated as a detection reagent. Free biotin is eliminated by dialysis against PBS. Protein concentration is determined by 280nm absorbance.

Formulation

The RPS27A is supplied in 1x PBS and 0.05% PBS.

Stability

Lyophilized RPS27A although stable at 15°C for 1 week, should be stored desiccated below -18°C. For long term storage, to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.