

Recombinant Human Ribosomal Protein S27a

Cat. No. RPS27A-79H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ubiquitin expressed in <i>Escherichia coli</i> and purified by ion-exchange chromatography.
Species	Human
Source	E.coli
Description	Recombinant Human Ubiquitin (Ub) is a small protein composed of 76 amino acids and having a molecular mass of 8.6kDa. Ub is found only in eukaryotic organisms among which it shows strong sequence conservation. The protein is present in all cell types, thus giving rise to its name. Ub is found either in free form or conjugated to proteins through a covalent bond between the glycine at the C-terminal end of Ub and the side chains of lysine on the proteins. The attachment of multiple copies of ubiquitin targets the proteins for degradation by the 26S proteasome. Ubiquitin ligation is an ATP-dependent multi-step process: Ub is activated by the E1 enzyme, the attachment of Ub to the target protein is catalyzed by the E2 enzyme acting in concert with E3 which plays a role in recognizing the substrate protein.
Amino Acid Sequence	MQIFVKLTG KTITLEVEPS DTIENVKAKI QDKEGIPPDQ QRLIFAGKQL EDGRTLSDYN IQKESTLHLV LRLRGG.
Physical Appearance	Sterile filtered colorless solution.
Purity	Minimum 95% as estimated by analysis of Coomassie blue stained SDS-PAGE.

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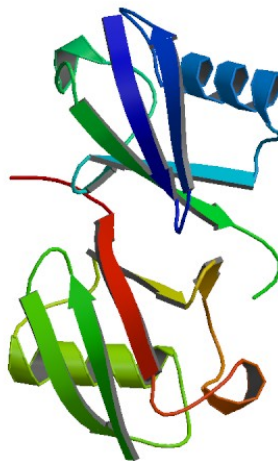
Formulation	1mg/ml containing 50mM HEPES (pH7.5) 150mM NaCl, 1mM DTT and 10%glycerol.
Storage	Store at -20°C if intended use is longer than 1 week, store at 4°C for a period up to 1 week, please avoid freeze thaw cycles.
GENE INFORMATION	
Gene Name	RPS27A ribosomal protein S27a [Homo sapiens]
Synonyms	RPS27A; ribosomal protein S27a; CEP80; UBA80; UBCEP1; UBCEP80; HUBCEP80; ubiquitin and ribosomal protein S27a; ubiquitin-CEP80; OTTHUMP00000200786; 40S ribosomal protein S27a; ubiquitin carboxyl extension protein 80
Gene ID	6233
mRNA Refseq	NM_001135592
Protein Refseq	NP_001129064
UniProt ID	P62979
Chromosome Location	2p16
MIM	191343
Pathway	Ribosome; Gene Expression; Influenza Infection; Metabolism of proteins
Function	metal ion binding; structural constituent of ribosome; zinc ion binding

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