

Recombinant Escherichia coli RPSG Protein (30S) (2-179 aa), His-tagged

Cat. No. RPSG-1224E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) RPSG Protein (30S) (2-179 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	E.coli
Source	E.coli
ProteinLength	2-179 aa
Description	One of the primary rRNA binding proteins, it binds directly to 16S rRNA where it nucleates assbly of the head domain of the 30S subunit. Is located at the subunit interface close to the decoding center, where it has been shown to contact mRNA. Has been shown to contact tRNA in both the P and E sites; it probably blocks exit of the E site tRNA.
Form	Tris-based buffer,50% glycerol
Molecular Mass	23.9 kDa
AA Sequence	PRRRVIGQRKILPDPKFGSELLAKFVNILMVDGKKSTAESIVYSALETLAQRSGKSEL EAFEVALENVRPTVEVKSRRVGGSTYQVPVEVRPVRNALAMRWIVEAARKRGDK SMALRLANELSDAAENKGTAVKKREDVHRMAEANKAFAHYRWLSLRSFSHQAGAS SKQPALGYLN

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Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name	rpsG 30S ribosomal subunit protein S7 [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	RPSG
Synonyms	ECK3328;
Gene ID	947846
Protein Refseq	NP_417800
UniProt ID	P02359

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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