

Recombinant Streptomyces Actuosus NOSM Protein (1-50 aa), GST-tagged

Cat. No. NOSM-980S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Streptomyces Actuosus NOSM Protein (1-50 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Protein Description: Full Length.
Species	Streptomyces Actuosus
Source	E.coli
ProteinLength	1-50 aa
Description	Inhibits bacterial protein biosynthesis by binding to ribosomes. Specifically, binds to the complex of 23S rRNA and ribosomal protein L11 (RPLK) in the 50S ribosomal subunit. While allowing a weak binding of elongation factor G (EF-G) to the ribosome and subsequent GTP-hydrolysis, probably impairs conformational changes in both the ribosome and EF-G which are necessary for translocation. In vitro, inhibits Gram-positive bacteria S.aureus strain 209P (MIC=0.0009 g/ml), S.aureus strain 133 (MIC=0.0019 g/ml), S.aureus strain B3 (MIC=0.003 g/ml), S.aureus strain Hb (MIC=0.003 g/ml), M.citreus strain ATCC 8411 (MIC=0.0038 g/ml), M.lysodeikticus strain ATCC 4698 (MIC=0.003 g/ml), S.lutea strain ATCC 9341 (MIC=0.0011 g/ml), S.faecalis strain ATCC 9790 (MIC=0.0007 g/ml), S.viridans (MIC=0.0065 g/ml), S.pyogenes hollywood strain Dig7 (MIC=0.00028 g/ml), D.pneumoniae strain Til (MIC=0.00015 g/ml), N.catarrhalis (MIC=0.0017 g/ml), L.casei strain ATCC 6633 (MIC=0.003 g/ml), B.cereus strain ATCC 6630 (MIC=0.0071 g/ml) and various

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

isolates of *L.monocytogenes*. In vitro, inhibits Gram-negative bacterium *P.multocida* strain A125 (MIC=0.0024 g/ml) but not *M.smegmatis* strain ATCC 6630, *S.typhimurium*, *A.aerogenes* strain ATCC 8308, *P.vulgaris*, *K.pneumoniae* strain ATCC 10031, *S.marcescens* strain A476, *P.aeruginosa* strain Bass or *B.bronchiseptica* strain CN387. Does not inhibit Gram-negative bacterium *E.coli* strain ATCC 9637 but does inhibit purified ribosomes from *E.coli*. In vivo, has no systic effect in mice infected with staphylococci or streptococci when applied orally or subcutaneously. Has a local effect in mice infected subcutaneously or intraperitoneally with staphylococci when applied immediately afterwards. Is not toxic to mice.

Form	Tris-based buffer, 50% glycerol
Molecular Mass	32.4 kDa
AA Sequence	MDAAHLSDLIDALEISEFLDESRLDSEVVAKVMSASCTTCECCCSCSS
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 concentration instruction is sent along with the products.

GENE INFORMATION

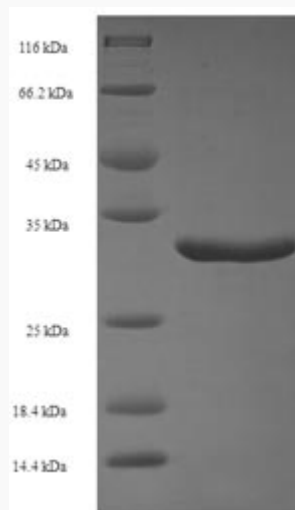
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UniProt ID

C6FX52



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

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