

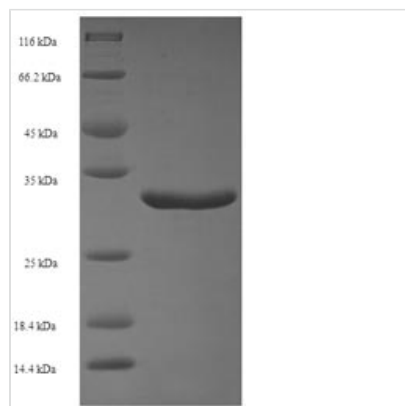


Recombinant Streptomyces actuosus Nosiheptide precursor (nosM)

Product Code	CSB-EP509748FNT
Relevance	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 <i>S.aureus</i> strain 209P (MIC=0.0009 µg/ml), <i>S.aureus</i> strain 133 (MIC=0.0019 µg/ml), <i>S.aureus</i> strain B3 (MIC=0.003 µg/ml), <i>S.aureus</i> strain Hb (MIC=0.003 µg/ml), <i>M.citrus</i> strain ATCC 8411 (MIC=0.0038 µg/ml), <i>M.lysodeikticus</i> strain ATCC 4698 (MIC=0.003 µg/ml), <i>S.lutea</i> strain ATCC 9341 (MIC=0.0011 µg/ml), <i>S.faecalis</i> strain ATCC 9790 (MIC=0.0007 µg/ml), <i>S.viridans</i> (MIC=0.0065 µg/ml), <i>S.pyogenes</i> <i>holyticus</i> strain Dig7 (MIC=0.00028 µg/ml), <i>D.pneumoniae</i> strain Til (MIC=0.00015 µg/ml), <i>N.catrrhalis</i> (MIC=0.0017 µg/ml), <i>L.casei</i> strain ATCC 6633 (MIC=0.003 µg/ml), <i>B.cereus</i> strain ATCC 6630 (MIC=0.0071 µg/ml) and various isolates of <i>L.monocytogenes</i> . In vitro, inhibits Gram-negative bacterium <i>P.multocida</i> strain A125 (MIC=0.0024 µg/ml) but not <i>M.smegmatis</i> strain ATCC 6630, <i>S.typhimurium</i> , <i>A.aerogenes</i> strain ATCC 8308, <i>P.vulgaris</i> , <i>K.pneumoniae</i> strain ATCC 10031, <i>S.marcescens</i> strain A476, <i>P.aeruginosa</i> strain Bass or <i>B.bronchiseptica</i> strain CN387. Does not inhibit Gram-negative bacterium <i>E.coli</i> strain ATCC 9637 but does inhibit purified ribosomes from <i>E.coli</i> . 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
Abbreviation	Recombinant Streptomyces actuosus nosM protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	C6FX52
Alias	Antibiotic 9671-RP1
Product Type	Recombinant Protein
Immunogen Species	Streptomyces actuosus
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MDAAHLSLDIDALEISEFLDESRLLEDSEVVAKVMSASCTTCECCSCSS
Research Area	Others
Source	E.coli



Target Names	nosM
Protein Names	Recommended name: Nosiheptide precursor Cleaved into the following chain: 1. Nosiheptide Short name= 2. NOS Alternative name(s): Antibiotic 9671-RP Multhiomycin
Expression Region	1-50aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	32.4kDa
Protein Length	Full Length

Image


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

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.