

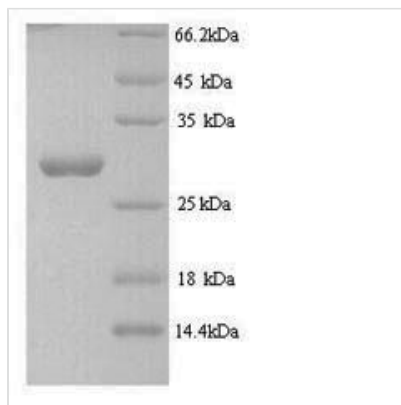


Recombinant Streptomyces actuosus Nosiheptide precursor (nosM)

Product Code	CSB-YP509748FNT
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 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 hemolyticus strain Dig7 (MIC=0.00028 ?g/ml), D.pneumoniae strain Til (MIC=0.00015 ?g/ml), N.catrrhalis (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 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 systemic 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.
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 Publication Multhiomycin
Product Type	Recombinant Protein
Immunogen Species	Streptomyces actuosus
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDAAHLSDLIDDALEISEFLDESRLLEDSEVVAKVMSASCTTCECCSCSS
Lead Time	Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.
Research Area	Others
Source	Yeast



Gene 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 Description	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.