Streptomyces coelicolor A3(2) has a low atomic weight protein tyrosine phosphatase (LMW-PTP), PtpA, that influences the creation of undecylprodigiosin (RED) and actinorhodin (ACT). In this examination we distinguished another LMW-PTP called sco3700. Tyrosine phosphatase movement of the cleaned Sco3700 was set up utilizing para-nitrophenyl phosphate and the tyrosine-phosphorylated protein PtkA from Bacillus subtilis as substrates. The ideal pH for the Sco3700 phosphatase movement was 6.8, and KM for pNPP was 14.3 mM contrasted with pH 6.0 furthermore, KM0.75 mM for PtpA. The capability of Sco3700 to partake, close by PtpA, in the guideline of S. coelicolor anti-infection creation was explored. Thus, S. coelicolor A3(2) strains with ptpA and sco3700 overexpression were developed and portrayed for development, RED and ACT creation. We noticed an expansion in volumetric profitability of ACT in the ptpA over articulation strain. Besides, an altogether prior beginning of ACT creation was seen when ptpA was over communicated. Sco3700 overexpression had a pleiotropic impact on the cell, and the strain showed lower productivities and last groupings of anti-microbials. We reason that Sco3700 is surely a tyrosine phosphatase, and it adds to guideline of anti-infection creation in S. coelicolor influencing the circumstance of beginning of the anti-toxin creation.