

Recombinant *Streptomyces achromogenes* sacIM Protein

Product Manual

1. Product Basic Information

Product No.: REP08154

Protein Name: Modification Methylase Saci (sacIM)

Aliases: modification methylase SacI

UniProt ID: O31073

UniProt Link: <https://www.uniprot.org/uniprotkb/O31073/entry>

Species Source: *Streptomyces achromogenes*

Expression System: *E. coli*

Protein Length: Full Length (1-390aa)

Molecular Weight: 59.3kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (1-390aa)

MNHELPVISLFGAGGLDCAIESCAEPPLVQDGSPLRVAVATDYEQTALDTLSAN
FPHTKTLGDIQTIPTAELLEAGGLKPGDPTLVIGGPPCTPFSKSGFWIEEKRNSADP
NASLLDEYVRVVRESKPEAFILENVQGLTYKTHQAQFDRLIAGLKDAGYNPTFRVLL
AAEYGVQQLRRRVFVVGRRDGKAFHFPETTHSGESERDRVIDHTKIPFTSLREALA
GLPDVPEAGEVVEGTYAELAAEVPPGQNYLWHTDRYGGRNEFKWRSRYWTFLLK
ADDRPSTTLQAQGPWVGPFWENVKNANGEERARRFRVAEMKRIMTFPDEFV
FTGVKREVQRQIGNPVPVELGKVVVRALMEQLGYLDSRGTTPSQAGHEQLELI

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant *Streptomyces achromogenes* sacIM full length protein (1-390aa) expressed in *E.coli*. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. sacIM, also known as modification methylase SacI, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.