



Recombinant strain ATCC 35210 / B31 / CIP 102532 / DSM 4680 fla Protein Product Manual

1. Product Basic Information

Product No.: REP06895

Protein Name: Flagellar Motor Switch Protein Flim (fla)

Aliases: flagellar motor switch protein FliM

UniProt ID: P11089

UniProt Link: <https://www.uniprot.org/uniprotkb/P11089/entry>

Species Source: Borrelia burgdorferi (strain ATCC 35210 / B31 / CIP 102532 / DSM 4680)

Expression System: E.coli

Protein Length: Full Length (1-336aa)

Molecular Weight: 51.8kDa

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

2. Amino Acid Sequence (1-336aa)

MIINHNTSAINASRNNGINAANLSKTQEKLSSGYRINRASDDAAGMGVSGKINAQIRG
LSQASRNTSKAINFIQTTEGNLNEVEKVLVRMKELAVQSGNGTYSDADRGSIQIEIEQ
LTDEINRIADQAQYNQMHTMLSNKSASQNVRTAEELGMQPAKINTPASLSGSQASWT
LRVHVGANQDEAIAVNIYAANVANLFSGEGAQTAQAAPVQEGVQQEGAQQPAPAT
APSQGGVNSPVNVTITVDANTSLAKIENAIMISDQRANLGAFQNRLESIKDSTEYAI
ENLKASYAQIKDATMTDEVVAATTNSILTQSAMAMIAQANQVPQYVLSLLR

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 strain ATCC 35210 / B31 / CIP 102532 / DSM 4680 fla full length protein (1-336aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. fla, also known as flagellar motor switch protein FlIM, 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.