



Recombinant strain 34H / ATCC BAA-681 ligA Protein Product Manual

1. Product Basic Information

Product No.: REP07353

Protein Name: Nad-Dependent Dna Ligase Liga (ligA)

Aliases: NAD-dependent DNA ligase LigA

UniProt ID: Q6API9

UniProt Link: <https://www.uniprot.org/uniprotkb/Q6API9/entry>

Species Source: Colwellia psychrerythraea (strain 34H / ATCC BAA-681) (Vibrio psychroerythus)

Expression System: E.coli

Protein Length: Partial (330-689aa)

Molecular Weight: 42.1 kDa

Protein Tag: N-terminal 10xHis-tagged

2. Amino Acid Sequence (330-689aa)

KFPAEEELTCVEDVEFQVGRTGAITPVARLKPVFVGGVTVSNATLHNQDEITRLGLK
VNDFVIRRAGDVIPQIVSVVLDKRPDNAV DIVFPTSCPVCDSAVAKPEGEAVLRCT
AGLFCAAQRKEAIKHFASRKAHDVDGLGDKLVEQLVDEKLINTPADLFLKTEIQVSTI
DRMGKKSATNLINGLEQAKSTTLAKFIYGLGIREVGEATAANLANHFYTLAAIESASL
EDLQNVSDVGEVVAKNIINFFKEEHNLAIVSGLSEVMHWPTIEIKSAEELPLAEQIFVL
TGTLTQMGRTEAKTALQSLGAKVSGSVSKNTHFVVAGDKAGSKLTKAQDLGISVLT
EDGLVALLAEHGITI

3. Storage Buffer

Liquid Delivery Form: Tris-based buffer with 50% glycerol.

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 34H / ATCC BAA-681 ligA partial protein (330-689aa) expressed in E.coli. The protein is with 10xHis tag at the N-terminus, which facilitates protein purification, detection and identification. ligA, also known as NAD-dependent DNA ligase LigA, 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.