



Recombinant Human LPO Protein Product Manual

1. Product Basic Information

Product No.: REP07377

Protein Name: Salivary Peroxidase (LPO)

Aliases: lactoperoxidase; salivary peroxidase

UniProt ID: P22079

UniProt Link: <https://www.uniprot.org/uniprotkb/P22079/entry>

Species Source: Homo sapiens (Human)

Expression System: Mammalian cell

Protein Length: Full Length of Mature Protein (81-712aa)

Molecular Weight: 76.6 kDa

Protein Tag: N-terminal 10xHis-tagged and C-terminal Myc-tagged

2. Amino Acid Sequence (81-712aa)

TRTAIRNGQVWEESLKRLRQKASLTNVTDPSLDLTSLSLVGC GAPAPVVRCDPCS
PYRTITGDCNNRRKPALGAANRALARWLPAEYEDGLSLPFGWTPGKTRNGFPLPL
AREVSNKIVGYLNEEGVLDQNRSLLFMQWGQIVDHDLDFA PDTELGSSEYSKAQC
DEYCIQGDNCFPIMFPPNDPKAGTQGKCMPPFFRAGFVCPTPPYKSLAREQINALTS
FLDASFVYSSEPSLASRLRNLSPLGLMAVNQEVSDHGLPYLPYDSKKPSPCEFIN T
TARVPCFLAGDSRASEHILLATSHTLFLREHNRLARELKRLNPQWDGEKLYQEARKI
LGA FVQIITFRDYLPI LLGDHMQKWIPPYQGYSESVDPRISNVFTFAFRFGHLEVPSS
MFRLDENYQPWGPEPELPLHTLFFNTWRMVKDGGIDPLVRGLLAKKSKLMKQNK M
MTGELRNKLFQPTHRIHGFDLAAINTQRCRDHGQPGYNSWRAFC DLSQPQTLEEL
NTVLKSKMLAKKLLGLYGTPDNIDIWIGAIAEPLVERGRVG PLLACLLGKQFQQIRDG
DRFWWENPGVFTNEQKDSLQKMSFSRLVCDNTRITKVPRDPFWANSYPYDFVDC
SAIDKLDLSPWASVKN

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 Human LPO full length of mature protein (81-712aa) expressed in Mammalian cell. The protein is dual-tagged with 10xHis tag at the N-terminus and Myc tag at the C-terminus, which facilitates protein purification, detection and identification. LPO, also known as lactoperoxidase or salivary peroxidase, 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.