

## Lactoperoxidase/LPO Protein, Human, Recombinant (His & Myc)

### General Information

Synonyms: LPO;SAPX;Salivary peroxidase (SPO);Lactoperoxidase

Protein Construction: 81-712 aa

Species: Human

Expression Host: HEK293 Cells

Accession: P22079

Molecular Weight: 76.6 kDa (predicted)

AA Sequence: TRTAIRNGQVWEESLKRLRQKASLTNVTDPSLDLTSLSLEVGC GAPAPVVRCDPCSPYRTITGDCNNRRKPAL  
GAANRALARWLPAEYEDGLSLPFGWTPGKTRNGFPLPLAREVSNKIVGYLNEEGVLDQNRSLFMQWGQIV  
DHDLDFA PDTELGSSEYSKAQCDEYCIQGDNCFPIMFPPNDPKAGTQGKCMPPFRAGFVCPTPPYKSLAREQI  
NALTSLDASFVYSSEPSLASRLRLSSPLGLMAVNQEVSDHGLPYLPYDSKKPSPCEFINTTARVPCFLAGDS  
RASEHILLATSHTLFLREHNRLARELKRLNPQWDGEKLYQEARKILGAFVQIITFRDYLPILLGDHMQKWIPPYQ  
GYSESVDPRISNVFTFAFRFGHLEVPSSMFRLDENYQPWGPEPELPLHTLFFNTWRMVKDGIDPLVRGLLAK  
KSKLMKQNKMMTGELRNKLFQPTHRIHGFDLAAINTQRCRDHGQPGYNSWRAFCDSLSPQTLEELNTVLKS  
KMLAKKLLGLYGTDPNIDIWIGAI AEPLVERGRVGP LLACLLGKQFQQIRDGDRFWWENPGVFTNEQKDSLQ  
KMSFSRLVCDNTRITKVPRDPFWANSYPYDFVDCSAIDKLDLSPWASVKN

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

**Protein Background**

Antimicrobial agent which utilizes hydrogen peroxide and thiocyanate (SCN) to generate the antimicrobial substance hypothiocyanous acid (HOSCN). May contribute to airway host defense against infection.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286    E\_mail:info@targetmol.com    Address:34 Washington Street,Wellesley Hills,MA 02481