

Candida (MP65) Peptide Pool

Candida albicans (MP65) peptide pool for immune cell activation

Catalog #100-1407

~25 µg (15 nmol)/peptide



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Product Description

Candida (MP65) Peptide Pool is a lyophilized mixture of 92 peptides from the mannoprotein MP65 of *Candida albicans* (yeast). The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 379 on MP65. MP65 contributes to cell wall integrity of *C. albicans* and epithelia adherence (Sandini et al.), and it is a potent T cell immunogen (Gomez et al.). One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating 2.5×10^8 cells.

APPLICATIONS

- Antigen-specific T cell stimulation
- Cellular immune response
- Immune monitoring
- T cell assays
- T cell expansion

Product Information

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|---------------------|---|
| Number of Peptides: | 92 |
| Source: | <i>Candida albicans</i> (yeast) |
| Accession Number: | Q9HEP1 |
| Protein Name: | Mannoprotein MP65 |
| Protein Sequence: | MLFKSFVTFVLANALAAPLAHQHHQHKEEKRAVHVVTNTNVVVVTIGNGDQTTTFAAPSVAADSSVSVSVNTEPP QNHPTTTQDVASASTYPSSTDGSAASSSAAASSSSQAGSEPSGGVGSGGAKGITYSPYSDNGGCKSSSQIASEIA QLSGFNIRLYGVDCDQVAAVLIAKTSSQKIFAGIFDVSSITSGIESLAEAVKSICGSWDDIYTVSIGNELVNAGSATP SQUIKAYVEEGRKALKAAAGYTGPPVSVDTFIAVINNPDLCDYSDYMAVNAHAFFDGHVAAENSGAWVLQQIQRVWT ACGGKKNVLITETGWPSRGDSNGVAVPSKSNQQAIISSIKSSCGASAILFTAFNDLWKADGPYNAEKYWGIYSN |
| Gene Name: | MP65 |
| Purity: | Average 70% |
| Formulation: | Lyophilized as trifluoroacetate salts |

Preparation and Storage

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|--------------|---|
| Storage: | Store at -20°C. |
| Stability: | Stable as supplied until expiry date (EXP) on label. |
| Preparation: | Warm to room temperature (15 - 25°C) before reconstitution. Add pure dimethyl sulfoxide (DMSO; ~40 µL) and dilute with water to the desired concentration. Final concentration of DMSO must be below 1% (v/v) to avoid toxicity in the biological system. If not used immediately, aliquot and store at -20°C. Protect from light. Avoid repeated freeze-thaw cycles. |

Related Products

For a complete list of peptide pools, as well as related products available from STEMCELL Technologies, visit www.stemcell.com, or contact us at techsupport@stemcell.com.

References

Gomez MJ et al. (1996) Purification and biochemical characterization of a 65-kilodalton mannoprotein (MP65), a main target of anti-Candida cell-mediated immune responses in humans. *Infect Immun* 64(7): 2577–84.

Sandini S et al. (2011) The MP65 gene is required for cell wall integrity, adherence to epithelial cells and biofilm formation in *Candida albicans*. *BMC Microbiol* 11(1): 116.

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