

# Human (Actin) Peptide Pool

## Human (actin) negative control peptide pool for immune cell activation

Catalog #100-1411

~25 µg (15 nmol)/peptide



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

[INFO@STEMCELL.COM](mailto:INFO@STEMCELL.COM) • [TECHSUPPORT@STEMCELL.COM](mailto:TECHSUPPORT@STEMCELL.COM)

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## Product Description

Human (Actin) Peptide Pool is a lyophilized mixture of 92 peptides from human actin, alpha skeletal muscle. The pool consists of 15-mer peptides with 11-amino-acid overlaps that cover amino acids 1 - 377 on actin. It is frequently used as a negative control. Actin, alpha skeletal muscle is part of the highly conserved actin protein family and is the predominant isoform found in adult skeletal muscle (Laing et al.). One unit of this product (i.e. ~25 µg/peptide) is sufficient for stimulating  $2.5 \times 10^8$  cells.

### APPLICATIONS

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

## Product Information

Number of Peptides: 92

Source: *Homo sapiens* (Human)

Accession Number: P68133

Protein Name: Actin, alpha skeletal muscle

Protein Sequence: MCDEDETTALVCDNGSGLVKAGFAGDDAPRAVFPISVGRPRHQGVMVGMGQKDSYVGDEAQSQRGILTLKYPIE  
HGIIITNWDDMEKIWHHTFYNELRVAPPEEHTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGRRT  
GIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEM  
ATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVMSGGTTM  
YPGIADRMQKEITALPSTMKIKIIPPERKYSVWIGGSILASLSTFQQMWIT KQEYDEAGPSIVHRKCF

Gene Name: ACTA1

Purity: Average 70%

Formulation: Lyophilized as trifluoroacetate salts

## Preparation and Storage

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](http://www.stemcell.com), or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

Laing NG et al. (2009) Mutations and polymorphisms of the skeletal muscle  $\alpha$ -actin gene (ACTA1). *Hum Mutat* 30(9): 1267–77.

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