

Human (Actin) Peptide Pool

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

Catalog #100-1411

~25 µg (15 nmol)/peptide



Scientists Helping Scientists™ | WWW.STEMCELL.COM

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

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

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 2.5×10^8 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: MCDEDETTALVCDNGSGLVKAGFAGDDAPRAVFPSIVGRPRHQGVMMGMGQKDSYVGDEAQSCKRGILTLYKPIEHGIITNWDDMEKIWHHTFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGRITGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLANNVMSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWIT 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, or contact us at techsupport@stemcell.com.

References

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

PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2023 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, and Scientists Helping Scientists are trademarks of STEMCELL Technologies Canada Inc. All other trademarks are the property of their respective holders. While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.