

Datasheet for ABIN7551976

## Actin, gamma 1 Protein (ACTG1) (AA 1-375) (His tag)



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### Overview

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Quantity:                     | 1 mg                                                  |
| Target:                       | Actin, gamma 1 (ACTG1)                                |
| Protein Characteristics:      | AA 1-375                                              |
| Origin:                       | Human                                                 |
| Source:                       | HEK-293 Cells                                         |
| Protein Type:                 | Recombinant                                           |
| Purification tag / Conjugate: | This Actin, gamma 1 protein is labelled with His tag. |
| Application:                  | Western Blotting (WB), SDS-PAGE (SDS)                 |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | Custom-made recombinat ACTG1 Protein expressed in mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence:        | <p>MEEEIAALVI DNGSGMCKAG FAGDDAPRAV FPSIVGRPRH QGVMVGMGQK DSYVGDEAQS</p> <p>KRGILTLKYP IEHGIVTNWD DMEKIWHHTF YNELRVAPEE HPVLLTEAPL NPKANREKMT</p> <p>QIMFETFNTF AMYVAIQAVL SLYASGRRTTG IVMDSGDGVHTVPIYEGYA LPHAILRLDL</p> <p>AGRDLDYLM KILTERGYSF TTTAEREIVR DIKEKLCYVA LDFAQEMATA ASSSSLEKSY</p> <p>ELPDGQVITI GNERFRCPEA LFQPSFLGME SCGIHETTFN SIMKCDVDIR KDLYANTVLS</p> <p>GGTMYPGIA DRMQKEITAL APSTMKIKII APPERKYSVW IGGSILASLS TFQQMWISKQ</p> <p>EYDESGPSIV HRKCF <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p> |
| Characteristics: | Key Benefits:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

|         |                                                     |
|---------|-----------------------------------------------------|
| Purity: | > 90 % as determined by Bis-Tris Page, Western Blot |
|---------|-----------------------------------------------------|

|        |             |
|--------|-------------|
| Grade: | custom-made |
|--------|-------------|

## Target Details

|         |                        |
|---------|------------------------|
| Target: | Actin, gamma 1 (ACTG1) |
|---------|------------------------|

|                   |                                          |
|-------------------|------------------------------------------|
| Alternative Name: | ACTG1 ( <a href="#">ACTG1 Products</a> ) |
|-------------------|------------------------------------------|

|             |                                                                                                                                                                                                                                                                                                           |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | Actin, cytoplasmic 2 (EC 3.6.4.-) (Gamma-actin) [Cleaved into: Actin, cytoplasmic 2, N-terminally processed],FUNCTION: Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.<br>{ECO:0000305 PubMed:29581253}. |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                   |          |
|-------------------|----------|
| Molecular Weight: | 41.8 kDa |
|-------------------|----------|

|          |                        |
|----------|------------------------|
| UniProt: | <a href="#">P63261</a> |
|----------|------------------------|

|           |                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------|
| Pathways: | <a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">Cell-Cell Junction Organization</a> |
|-----------|---------------------------------------------------------------------------------------------------------|

## Application Details

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

Handling

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| Format:          | Liquid                                                           |
| Buffer:          | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles.                               |
| Storage:         | -80 °C                                                           |
| Storage Comment: | Store at -80°C.                                                  |
| Expiry Date:     | 12 months                                                        |