

Datasheet for ABIN7562293

SMAD7 Protein (AA 1-426) (His tag)



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Overview

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|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | SMAD7 |
| Protein Characteristics: | AA 1-426 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SMAD7 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant Smad7 Protein expressed in mammalian cells. |
| Sequence: | <p>MFRTKRSALV RRLWRSRAPG GEDEEEGVGG GGGGGELRGE GATDGRAYGA GGGGAGRAGC</p> <p>CLGKAVRGAK GHHPHPPTS GAGAAGGAEA DLKALTHSVL KKLKERQLEL LLQAVESRGG</p> <p>TRTACLLLPG RLDCRLGPGA PASAQPAQPP SSYSLPLLLC KVFRWPDLRH SSEVKRLCCC</p> <p>ESYGKINPEL VCCNPHLSR LCELESPPPP YSRYPMDFLK PTAGCPDAVP SSAETGGTNY</p> <p>LAPGGLSDSQ LLEPGDRSH WCVVAYWEEK TRVGRLYCVQ EPSLDIFYDL PQGNGFCLGQ</p> <p>LNSDNKSQLV QKVRISKIGCG IQLTREVDGV WYVNRSSYPY FIKSATLDNP DSRTLLVHKV</p> <p>FPGFSIKA FDYKAYSLQRP NDHEFMQQPW TGFTVQISFV KGWGQCYTRQ FISSCPCWLE</p> <p>VIFNSR 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.</p> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |

Product Details

Characteristics:

Key Benefits:

- 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.

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| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
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| Grade: | custom-made |
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Target Details

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| Target: | SMAD7 |
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| Alternative Name: | Smad7 (SMAD7 Products) |
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| Background: | Mothers against decapentaplegic homolog 7 (MAD homolog 7) (Mothers against DPP homolog 7) (Mothers against decapentaplegic homolog 8) (MAD homolog 8) (Mothers against DPP homolog 8) (SMAD family member 7) (SMAD 7) (Smad7),FUNCTION: Antagonist of signaling by TGF-beta (transforming growth factor) type 1 receptor superfamily members, has been shown to inhibit TGF-beta (Transforming growth factor) and activin signaling by associating with their receptors thus preventing SMAD2 access. Functions as an adapter to recruit SMURF2 to the TGF-beta receptor complex. Also acts by recruiting the PPP1R15A-PP1 complex to TGFBR1, which promotes its dephosphorylation. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator. {ECO:0000250 UniProtKB:O15105}. |
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| Molecular Weight: | 46.4 kDa |
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| UniProt: | O35253 |
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Target Details

Pathways: [Interferon-gamma Pathway](#), [Cell-Cell Junction Organization](#)

Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

Handling

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| 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 |