

Datasheet for ABIN7554208  
**INSM1 Protein (AA 1-510) (His tag)**



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## Overview

Quantity:	1 mg
Target:	INSM1
Protein Characteristics:	AA 1-510
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INSM1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat INSM1 Protein expressed in mammalian cells.
Sequence:	MPRGFLVKRS KKSTPVSYRV RGGEDGDRAL LLSPSCGGAR AEPPAPSPVP GPLPPPPPAE RAHAALAAAL ACAPGPQPPP QGPRAAHFGN PEAHPAPLY SPTRPVSREH EKHKYFERSF NLGSPVSAES FPTPAALLGG GGGGGASGAG GGGTCGGDPL LFAPAELKMG TAFSAGAEAA RGPGPPLP PAAALRPPGK RPPPPTAAEP PAKAVKAPGA KKPKAIRKLH FEDEVTTSPV LGLKIKEGPV EAPRGRAGGA ARPLGEFICQ LCKEEYADPF ALAQHKCSRI VRVEYRCPEC AKVFSPANL ASHRRWHKPR PAAAAARAPE PAAAAARAEAR EAPGGGSDRD TPSPGGVSES GSEDGLYECH HCAKKFRRQA YLRKHLLAHH QALQAKGAPL APPAEDLLAL YPGPDEKAPQ EAAGDGEGAG VLGLSASAEC HLCPVCGESF ASKGAQERHL RLLHAAQVFP CKYCPATFY S SPGLTRHINK CHPSENQVI LLQVPVRPAC <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</b>

## Product Details

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### contact us.

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#### 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.

#### Purity:

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

#### Grade:

custom-made

## Target Details

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#### Target:

INSM1

#### Alternative Name:

INSM1 ([INSM1 Products](#))

#### Background:

Insulinoma-associated protein 1 (Zinc finger protein IA-1),FUNCTION: Sequence-specific DNA-binding transcriptional regulator that plays a key role in neurogenesis and neuroendocrine cell differentiation during embryonic and/or fetal development. Binds to the consensus sequence 5'-[TG][TC][TC][TT][GA]GGG[CG]A-3' in target promoters. Acts as a transcriptional repressor of NEUROD1 and INS expression via its interaction with cyclin CCND1 in a cell cycle-independent manner. Negatively regulates skeletal muscle-specific gene expression in endocrine cells of the pituitary by inhibiting the Notch signaling pathway. Represses target gene transcription by recruiting chromatin-modifying factors, such as HDAC1, HDAC2, HDAC3, KDM1A and RCOR1 histone deacetylases. Binds to its own promoter, suggesting autoregulation as a self-control feedback mechanism. Competes with histone H3 for the same binding site on the histone demethylase complex formed by KDM1A and RCOR1, and thereby inhibits demethylation of histone H3 at 'Lys-4' (PubMed:23721412). Promotes the generation and expansion of neuronal

## Target Details

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basal progenitor cells in the developing neocortex. Involved in the differentiation of endocrine cells of the developing anterior pituitary gland, of the pancreas and intestine, and of sympatho-adrenal cells in the peripheral nervous system. Promotes cell cycle signaling arrest and inhibition of cellular proliferation. {ECO:0000269|PubMed:11842116, ECO:0000269|PubMed:16511571, ECO:0000269|PubMed:16569215, ECO:0000269|PubMed:18417529, ECO:0000269|PubMed:19124461, ECO:0000269|PubMed:23721412}.

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Molecular Weight: 52.9 kDa

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UniProt: [Q01101](#)

## 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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months