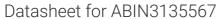
# antibodies .- online.com





# INSM1 Protein (AA 1-521) (His tag)



**Image** 



Go to Product page

#### Overview

Quantity:	1 mg
Target:	INSM1
Protein Characteristics:	AA 1-521
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INSM1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

### **Product Details**

Sequence:

MPRGFLVKRS KKSTPVSYRV RGGEDSDRAL LLSPGCGGAR AEPPVPSPGP LPPPPPPALA ERAHAALAAA LACAPGPPPP PPPGPRAAHF GNPEAAHPAP LYSPTRPVSR EHEKHKYFER SFNLGSPVSA ESFPTPAALL AGGGSGANGA GGGGGGTCGG DALLFAPAEL KMGTAFSAGA EAARGPGTGP PLSPAAALRP PGKRPAPPAA VATEPPAKAA KAPSAKKPKA IRKLHFEDEV TTSPVLGLKI KEGPVEAPRG RAGGATRPLG EFICQLCKEE YADPFALAQH KCSRIVRVEY RCPECAKVFS CPANLASHRR WHKPRPVPAA ARAPEPEAAT RAEAREAAGG GSSDRDTPSP GGVSESGSED GLYECHHCAK KFRRQAYLRK HLLAHHQALQ AKGAPPPPPP PPPPAEDILA FYAGPDEKAP QEASGDGEAA GVLGLSATAQ CHLCPVCGET FPSKGAQERH LRLLHAAQVF PCKYCPATFY SSPGLTRHIN KCHPSENRQV ILLQVPVRPA C

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

#### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Insm1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

#### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

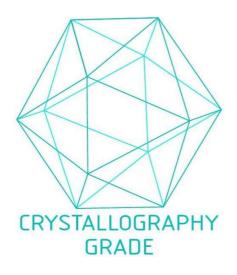
## Target Details

Target:	INSM1
Alternative Name:	Insm1 (INSM1 Products)
Background:	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. Promotes the generation and
	expansion of neuronal 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:16511571,
	ECO:0000269 PubMed:16951258, ECO:0000269 PubMed:18094025,
	ECO:0000269 PubMed:18940587, ECO:0000269 PubMed:24227653}.
Molecular Weight:	55.0 kDa Including tag.
UniProt:	Q63ZV0
UniProt: Application Details	Q63ZV0
	Q63ZV0  In addition to the applications listed above we expect the protein to work for functional studies
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## Handling

Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

## **Images**



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process