

Datasheet for ABIN7562273
PITX3 Protein (AA 1-302) (His tag)



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Overview

Quantity:	1 mg
Target:	PITX3
Protein Characteristics:	AA 1-302
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PITX3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Pitx3 Protein expressed in mammalien cells.
Sequence:	MEFGLLGAE ARSPALSLSD AGTPHPPLPE HGCKGQEHSD SEKASASLPG GSPEDGSLKK KQRRQRTHFT SSQLQLEAT FQRNRYPDMS TREEIAVWTN LTEARVRVWF KNRRAKWRKR ERSQQAELCK GGFAAPLGGL VPPYEEVYPG YSYGNWPPKA LAPPLAAKTF PFAFNSVNVG PLASQPVFSP PSSIAASMVP SAAAAPGTVP GPGALQQLGG APPGLAAPAV SSGAVSCPYA SAAAAAAAAA SSPYVYRDPC NSSLASRLK AKQHASFSTP AVPGPPPAAN LSPCQYAVR PV 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.

Characteristics:	Key Benefits: Made to order protein - from design to production - by highly experienced protein experts.
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Product Details

- 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:	PITX3
Alternative Name:	Pitx3 (PITX3 Products)
Background:	Pituitary homeobox 3 (Homeobox protein PITX3) (Paired-like homeodomain transcription factor 3),FUNCTION: Transcriptional regulator which is important for the differentiation and maintenance of meso-diencephalic dopaminergic (mdDA) neurons during development. In addition to its importance during development, it also has roles in the long-term survival and maintenance of the mdDA neurons. Activates NR4A2/NURR1-mediated transcription of genes such as SLC6A3, SLC18A2, TH and DRD2 which are essential for development of mdDA neurons. Acts by decreasing the interaction of NR4A2/NURR1 with the corepressor NCOR2/SMRT which acts through histone deacetylases (HDACs) to keep promoters of NR4A2/NURR1 target genes in a repressed deacetylated state. Essential for the normal lens development and differentiation. Plays a critical role in the maintenance of mitotic activity of lens epithelial cells, fiber cell differentiation and in the control of the temporal and spatial activation of fiber cell-specific crystallins. Positively regulates FOXE3 expression and negatively regulates PROX1 in the anterior lens epithelium, preventing activation of CDKN1B/P27Kip1 and CDKN1C/P57Kip2 and thus maintains lens epithelial cells in cell cycle. {ECO:0000269 PubMed:15950611, ECO:0000269 PubMed:17184956,

Target Details

	ECO:0000269 PubMed:19007884, ECO:0000269 PubMed:19144721, ECO:0000269 PubMed:19334279}.
Molecular Weight:	31.7 kDa
UniProt:	O35160

Application Details

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