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Datasheet for ABIN7563467
FOXP1 Protein (AA 1-705) (His tag)

Overview

Quantity:	1 mg
Target:	FOXP1
Protein Characteristics:	AA 1-705
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOXP1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Foxp1 Protein expressed in mammalian cells.
Sequence:	MMQESGSETK SNGSAIQNGS SGGNHILLECG ALRDTRSNGE APAVDLGAAD LAHVQQQQQQ ALQVARQLLL QQQQQQQQQQ QQQQQQQQQQ QQQQQQQQQQ QQQQQQVSG LKSPKRNDKQ PALQVPVSA MMTPQVITPQ QMQQILQQV LSPQQLQVLL QQQQALMLQQ QLQEFYKKQQ EQLQLLLQQ QHAGKQPKEQ QVATQQLAFQ QQLLQMQLQ QQHLLSLQRQ GLLTIQPGQP ALPLQPLAQQ MIPTQLQLW KEVTSHTAE ETTSSNHSSL DLTSTCVSSS APSKSSLIMN PHASTNGQLS VHTPKRESLS HEEHPHSHPL YGHGVCKWPG CEAVCDDFPA FLKHLNSEHA LDDRSTAQCR VQMQVVQLE LQLAKDKERL QAMMTHLHVK STEPKAAPQP LNLVSSVTLS KSASEASPQS LPHTPTTPTA PLTPVTQGPS VITTTSMHTV GPIRRRYSK YNVPISADI AQNQEFYKNA EVRPPFTYAS LIRQAILESP EKQLTLNEIY NWFTRMFAYF RRNAATWKNA VRHNLSLHKC FVRVENVKGA VWTVDEVEFQ KRRPQKISGN PSLIKNMQSS HAYCTPLNAA LQASMAENSI PLYTTASMGN PTLGSLASAI REELNGAMEH TNSNESDSSP GRSPMQAVHP IHVKEEPLDP EEAEGPLSLV TTANHSPDFD HDRDYEDEPV NEDME Sequence without tag. The

Product Details

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.

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.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: FOXP1

Alternative Name: Foxp1 ([FOXP1 Products](#))

Background: Forkhead box protein P1 (Forkhead-related transcription factor 1),FUNCTION: Transcriptional repressor. Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential (PubMed:11358962, PubMed:14701752). Plays an important role in the specification and differentiation of lung epithelium. Acts cooperatively with FOXP4 to regulate lung secretory epithelial cell fate and regeneration by restricting the goblet cell lineage program, the function may involve regulation of AGR2 (PubMed:11358962, PubMed:22675208). Essential transcriptional regulator of B-cell development (PubMed:16819554). Involved in regulation of cardiac muscle cell proliferation (PubMed:20713518). Involved in the columnar organization of

Target Details

spinal motor neurons. Promotes the formation of the lateral motor neuron column (LMC) and the preganglionic motor column (PGC) and is required for respective appropriate motor axon projections. The segment-appropriate generation of spinal cord motor columns requires cooperation with other Hox proteins (PubMed:18667151, PubMed:18662545). Can regulate PITX3 promoter activity, may promote midbrain identity in embryonic stem cell-derived dopamine neurons by regulating PITX3 (PubMed:20175877). Negatively regulates the differentiation of T follicular helper cells T(FH)s (PubMed:24859450). Involved in maintenance of hair follicle stem cell quiescence, the function probably involves regulation of FGF18 (PubMed:23946441). Represses transcription of various pro-apoptotic genes and cooperates with NF-kappa B-signaling in promoting B-cell expansion by inhibition of caspase-dependent apoptosis. Binds to CSF1R promoter elements and is involved in regulation of monocyte differentiation and macrophage functions, repression of CSF1R in monocytes seems to involve NCOR2 as corepressor. Involved in endothelial cell proliferation, tube formation and migration indicative for a role in angiogenesis, the role in neovascularization seems to implicate suppression of SEMA5B. Can negatively regulate androgen receptor signaling (By similarity). Acts as a transcriptional activator of the FBXL7 promoter, this activity is regulated by AURKA (By similarity). {ECO:0000250|UniProtKB:Q9H334, ECO:0000269|PubMed:14701752, ECO:0000269|PubMed:16819554, ECO:0000269|PubMed:18662545, ECO:0000269|PubMed:18667151, ECO:0000269|PubMed:20175877, ECO:0000269|PubMed:20713518, ECO:0000269|PubMed:22675208, ECO:0000269|PubMed:23946441, ECO:0000269|PubMed:24859450, ECO:0000305|PubMed:20175877, ECO:0000305|PubMed:22675208, ECO:0000305|PubMed:23946441}., FUNCTION: [Isoform 5]: Involved in transcriptional regulation in embryonic stem cells (ESCs). Stimulates expression of transcription factors that are required for pluripotency and decreases expression of differentiation-associated genes. Has distinct DNA-binding specificities as compared to the canonical form and preferentially binds DNA with the sequence 5'-CGATACAA-3' (or closely related sequences) (By similarity). Promotes ESC self-renewal and pluripotency (PubMed:21924763). {ECO:0000250|UniProtKB:Q9H334, ECO:0000269|PubMed:21924763}.

Molecular Weight: 78.8 kDa

UniProt: [P58462](#)

Pathways: [Chromatin Binding](#), [Regulation of Muscle Cell Differentiation](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

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

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