



Recombinant Human Homeobox protein MOX-1 (MEOX1)

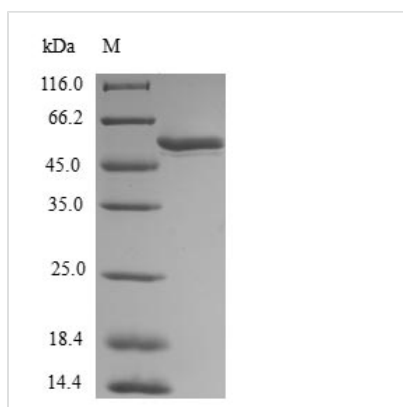
Product Code	CSB-EP013695HU
Relevance	Mesodermal transcription factor that plays a key role in somitogenesis and is specifically required for sclerotome development. Required for maintenance of the sclerotome polarity and formation of the cranio-cervical joints. Binds specifically to the promoter of target genes and regulates their expression. Activates expression of NKX3-2 in the sclerotome. Activates expression of CDKN1A and CDKN2A in endothelial cells, acting as a regulator of vascular cell proliferation. While it activates CDKN1A in a DNA-dependent manner, it activates CDKN2A in a DNA-independent manner. Required for hematopoietic stem cell (HSCs) induction via its role in somitogenesis: specification of HSCs occurs via the deployment of a specific endothelial precursor population, which arises within a sub-compartment of the somite named endotome.
Abbreviation	Recombinant Human MEOX1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P50221
Alias	Mesenchyme homeobox 1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDPAASSCMRSLQPPAPVWGCLRNPHEGNGASGLPHYPTPFSEFHQKPDF LATATAAYPDFSASCLAATPHSLPQEEHIFTEQHAPFPQSPNWHFPVSDARRR PNSGPAGGSKEMGTSSLGLVDTTGGPGDDYGVLGSTANETEKKSSRRRKES SDNQENRGKPEGSSKARKERTAFTKEQLRELEASEFAHHNYLTRLRRYEIAVNL DLSERQVKVWFQNRMRKWKRVKGGQPISPNGQDPEDGDSTASPSSE
Research Area	Cell Biology
Source	E.coli
Target Names	MEOX1
Protein Names	Recommended name: Homeobox protein MOX-1 Alternative name(s): Mesenchyme homeobox 1
Expression Region	1-254aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged



Mol. Weight 55.0kDa

Protein Length Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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