



# Recombinant Human Homeobox protein MSX-1 (MSX1)

<b>Product Code</b>	CSB-EP015068HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P28360
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MAPAADMTSL PLGVKVEDSA FGKPAGGGAG QAPSAATA AAMGADEEGA KPKVSPSLP FSVEALMADH RKP GAKESAL APSEGVQAAG GSAQPLGVPP GSLGAPDAPS SPRPLGHFSV GLLKLPEDA LVKAESPEKP ERTPWMQSPR FSPPPARRLS PPACTLRKHK TNRKPRTPFT TAQLLALERK FRQKQYLSIA ERAEFSSLS LTETQVKIWF QNRRAKAKRL QEALEKLM AAKMLPPAA FGLSFPLGGP AAVAAAAGAS LYGASGPFQR AALPVAPVGL YTAHVGYSMY HLT
<b>Source</b>	E.coli
<b>Target Names</b>	MSX1
<b>Protein Names</b>	Recommended name: Homeobox protein MSX-1 Alternative name(s): Homeobox protein Hox-7 Msh homeobox 1-like protein
<b>Expression Region</b>	1-303
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This gene encodes a member of the muscle segment homeobox gene family. The encoded protein functions as a transcriptional repressor during embryogenesis through interactions with components of the core transcription complex and other homeoproteins. It may also have roles in limb-pattern formation, craniofacial development, particularly odontogenesis, and tumor growth inhibition. Mutations in this gene, which was once known as homeobox 7, have been associated with nonsyndromic cleft lip with or without cleft palate 5, Witkop syndrome, Wolf-Hirschorn syndrome, and autosomal dominant hypodontia.
<b>Reconstitution</b>	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

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.