Recombinant Mouse Tbx5 Protein, His-tagged

Cat. No. Tbx5-2116M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tbx5 Protein (Met51-Gln251) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met51-Gln251
Description	Enables DNA-binding transcription activator activity, RNA polymerase II-specific and RNA polymerase II cis-regulatory region sequence-specific DNA binding activity. Involved in heart development; positive regulation of gap junction assembly; and positive regulation of transcription by RNA polymerase II. Acts upstream of or within several processes, including cell communication involved in cardiac conduction; heart development; and positive regulation of cell population proliferation. Located in nucleus. Part of transcription regulator complex. Is expressed in several structures, including embryo mesenchyme; eye; genitourinary system; heart; and vena cava. Used to study Holt-Oram syndrome. Human ortholog(s) of this gene implicated in Holt-Oram syndrome. Orthologous to human TBX5 (T-box transcription factor 5).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.9 kDa Accurate Molecular Mass: 27 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Tbx5 T-box 5 [Mus musculus (house mouse)]
Official Symbol	Tbx5
Synonyms	TBX5; T-box 5; T-box transcription factor TBX5; T-box protein 5;
Gene ID	21388
mRNA Refseq	NM_011537
Protein Refseq	NP_035667
UniProt ID	P70326

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