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## Product Data Sheet

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Product Name: SIX1 Human  
 Cat. No.: GP24598  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SIX Homeobox 1; Sine Oculis Homeobox Homolog 1; Sine Oculis Homeobox Homolog 1 (Drosophila); Homeobox Protein SIX1; Deafness Autosomal Dominant 23; DFNA23; TIP39; BOS3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSMLPS FGFTQEQVAC VCEVLQQGGN LERLGRFLWS LPACDHLHKN ESLKAKAVV AFHRGNFREL YKILESHQFS PHNHPKLQQL WLKAHYVEAE KLRGRPLGAV GKYRVRKFP LPRTIWDGEE TSYCFKEKSR GVLREWYAHN PYPSPREKRE LAEATGLTTT QVSNWFKNRR QRDRAAEAKE RENTENNNSS SNKQNQLSPL EGGKPLMSSS EEEFSPQSP DQNSVLLLQG NMGHARSSNY SLPGLTASQP SHGLQTHQHQ LQDSLLGPLT SSLVDLGS		
Formulation	The SIX1 solution contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea and 10% glycerol.		

### Introduction

Homeobox protein SIX1 (SIX1) belongs to the SIX gene family. SIX1 is characterized by a divergent DNA-binding homeodomain and an upstream SIX domain, which is involved both in determining DNA-binding specificity and in mediating protein-protein interactions. SIX1 has a role in vertebrate and insect development or in the maintenance of the differentiated state of tissues.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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SIX1 Human Recombinant produced in E. coli is a single polypeptide chain containing 308 amino acids (1-284) and having a molecular mass of 34.7 kDa. SIX1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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