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## Product Data Sheet

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Product Name: SIX6 Human  
 Cat. No.: GP24599  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Homeobox protein SIX6; Homeodomain protein OPTX2; Optic homeobox 2; Sine oculis homeobox homolog 6; SIX6; OPTX2; SIX9; OPTX2; MCOPCT2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMFQLPIL NFSPQQVAGV CETLEESGDV ERLGRFLWSL PVAPAACEAL NKNESVLRAR AIVAFHGGNY RELYHILENH KFTKESHAKL QALWLEAHYQ EAEKLRGRPL GPVDKYRVRK KFPLPRTIWD GEQKTHCFKE RTRNLLREWY LQDPYPNPSK KRELAQATGL TPTQVGNWFK NRRQRDRAAA AKNRLQQQVL SQGSGRALRA EGDGTPEVLG VATSPAASLS SKAATSAISI TSSDSECDI.		
Formulation	SIX6 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol, 5mM DTT and 2mM EDTA.		

### Introduction

SIX Homeobox 6 (SIX6) is a member of the SIX/Sine oculis homeobox family contains 1 homeobox DNA-binding domain. The SIX6 protein is essential in embryonic development by providing necessary instructions for the formation of the forebrain and eye development. SIX6 is expressed in the developing and adult retina, hypothalamic and the pituitary regions. SIX6 gene defects are the cause of microphthalmia isolated with cataract type 2.

### 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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SIX6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 269 amino acids (1-246 a.a) and having a molecular mass of 30.1kDa.SIX6 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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