9051 Mira Mesa Blvd, #910094
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SIX6 Human

SIX Homeobox 6 Human Recombinant
RCP2113

Product Overview

Name	SIX6 Human
Description	
SIX Homeobox 6 Human Recombinant	
Accession (Primary)	O95475
Synonyms	
Homeobox protein SIX6, Homeodomain protein OPTX2, Optic homeobox 2, Sine oculis homeobox homolog 6, SIX6, OPTX2, SIX9, OPTX2, MCOPCT2.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
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.	
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.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MFQLPIL NFSPQQVAGV CETLEESGDV ERLGRFLWSL PVAPAACEAL NKNESVLRAR AIVAFHGGNY RELYHILENH KFTKESHAKL QALWLEAHYQ EAEKLRGRPL GPVDKYRVRK KFPLPRTIWD GEQKTHCFKE RTRNLLREWY LQDPYPNPSK KRELAQATGL TPTQVGNWFK NRRQRDRAAA	

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AKNRLQQQVL SQGSGRALRA EGDGTPEVLG VATSPAASLS SKAATSAISI TSSDSECDI.

Precautions

SIX6 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O95475)