

Product information



SIX6, 1-246aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1758

Full name: SIX homeobox 6

NCBI Accession No.: AAH69413

Synonyms: MCOPCT2, Six9

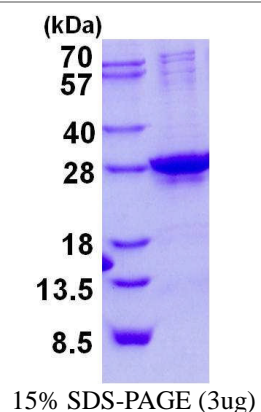
Description: SIX6, also as known as OPTX2 and SIX9, belongs to the SIX/Sine oculis homeobox family contains 1 homeobox DNA-binding domain. The SIX homeobox protein is crucial in embryonic development by providing necessary instructions for the formation of the forebrain and eye development. This protein expressed in the developing and adult retina, hypothalamic and the pituitary regions. Defects in SIX6 are the cause of microphthalmia isolated with cataract type 2. Microphthalmia is a clinically heterogeneous disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues. Recombinant human SIX6 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl,
40% glycerol, 5mM DTT, 2mM EDTA

Molecular Weight: 30.1kDa (269aa) confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSMLQLPIL NFSPQQVAGV CETLEESGDV ERLGRFLWSL PVAPAACEAL NKNESVLRAR AIVAFHGGNY
RELYHILENH KFTKESHAKL QALWLEAHYQ EAEKLRGRPL GPVDKYRVRK KFPLPRTIWD GEQKTHCFKE RTRNLLREWY LQDPYPNPSK
KRELAQATGL TPTQVGNWFK NRRQRDRAAA AKNRLQQQVL SQGSGRALRA EGDGTPEVLG VATSPAASLS SKAATSAISI TSSDSECDI

General references:

Gallardo M.E., *et al.* (2004) *Am. J. Med. Genet. A* 129:92-94

Lopez-Rios J., *et al.* (1999) *Mech. Dev.* 83:155-159

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
Email: info@ibl-america.com Web: www.ibl-america.com