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**YBC903Mu01**  
**100µg**

**Recombinant Deiodinase, Iodothyronine, Type II (DIO2)**  
**Organism Species: Mus musculus (Mouse)**

*Instruction  
manual*

**FOR IN VITRO USE AND RESEARCH USE ONLY**  
**NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES**

9th Edition (Revised in Jul,  
2013)

## **[ PROPERTIES ]**

**Residues: Ser30~Phe259 (Accession # Q9Z1Y9), with two N-terminal Tags, His-tag and MBP-tag.**

**Host: *E. coli***

**Subcellular Location: Membrane; Single-pass membrane protein .**

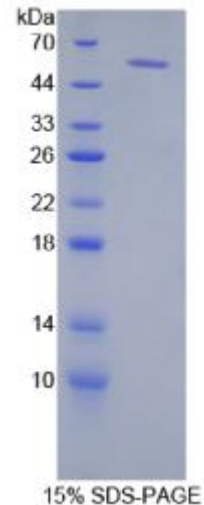
**Purity: >95%**

**Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).**

**Formulation: Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.**

**Predicted isoelectric point: 5.8**

**Predicted Molecular Mass: 72.4kDa**



The possible reasons that the actual band size differs from the predicted are as follows:

**Accurate Molecular Mass: 60kDa as determined by SDS-PAGE reducing conditions.**

**Applications: SDS-PAGE; WB; ELISA; IP.**

**(May be suitable for use in other assays to be determined by the end user.)**

**Note:**

1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
2. Relative charge: The composition of amino acids may affects the charge of the protein.



3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
5. Polymerization of the target protein: Dimerization, multimerization etc.

## **[ USAGE ]**

Reconstitute in sterile PBS, pH7.2-pH7.4.

## **[ STORAGE AND STABILITY ]**

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## **[ SEQUENCES ]**

The target protein is fused with two N-terminal Tags, His-tag and MBP-tag, its sequence is listed below.

MKIEEGKLV I WINGDKGYNG LAEVGKKFEK DTGIKVTVEH PDKLEEKFPQ VAATGDGPDI  
IFWAHDRFGG YAQSGLLAEI TPKAFQDKL YPFTWDAVRY NGKLIAYPIA VEALSLIYNK  
DLLPNPPKTW EEIPALDKEL KAKGKSALMF NLQEPYFTWP LIAADGGYAF KYENKDYDIK  
DVGVDNAGAK AGLTFLVDLI KNKHMNADTD YSIAEAAFNK GETAMTINGP WAWSNIDTSK  
VNYGVTVLPT FKGQPSKPFV GVLSAGINAA SPNKELAKEF LENYLLTDEG LEAVNKDKPL  
GAVALKSYEE ELAKDPRIAA TMENAQKGEI MPNIPQMSAF WYAVRTAVIN AASGRQTVDE  
ALKDAQTGST SGSGHHHHHH SAGLVPRGST AIGMKETAAA KFERQHMDSP DLGTLEVLFG  
GPLGSEF- S VILLKHVALL LRSKSTRGE WRRMLTSEGL RCVWNSFLLD AYKQVKLGED  
APNSSVVHVS NPESGNNYAS EKTADGAECH LLDFAAERP LVVNFGSATU PPFTRQLPAF  
RQLVEEFSSV ADFLLVYIDE AHPDGDWAVP GDSSLSFEVK KHRNQEDRCA AAHQLLERFS



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**LPPQCQVVAD RMDNNANVAY GVAFERVCIV QRRKIAYLGG KGPFSYNLQE VRSWLEKNF**