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YB93297Hu01

Cytochrome P450 1B1 (CYP1B1)

Organism: Homo sapiens (Human)

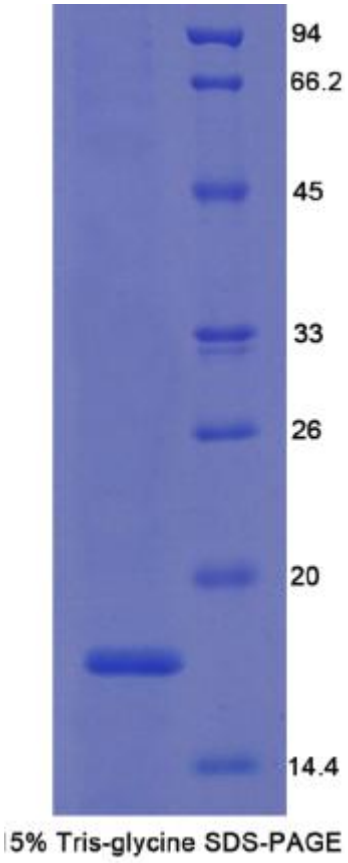
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

3th Edition (Revised in February, 2012)

[DESCRIPTION]



5% Tris-glycine SDS-PAGE

Protein Names: Cytochrome P450 1B1

Gene Names: CYP1B1

Size: 100μg

Source: Recombinant

Expression Host: *E.coli*

Function: Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.

Subcellular Location: Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane;Peripheral membrane protein.

Tissue Specificity: Expressed in many tissues.

[PROPERTIES]

Residues: Asp374~Phe516 (Accession # Q16678), with a N-terminal His-tag.

Grade & Purity: >97%, 17.9 kDa as determined by SDS-PAGE reducing conditions.

Form & Buffer: Supplied as lyophilized form in PBS, pH 7.4.

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

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

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

Predicted Molecular Mass: 17.9 kDa

[PREPARATION]

Reconstitute in PBS.

[STORAGE AND STABILITY]

Storage: Store at 4°C for short time storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

Valid period: 12 months stored at -80°C.

[BACKGROUND]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHHSGSEF-DQPNLPY VLAFLYEAMR FSSFVPVTIP HATTANTSVL GYHIPKDTVV FVNQWSVNHD PLKWPNPENF DPARFLDKDG LINKDLTSRV MIFSVGKRRC IGEELSKMQL FLFISILAHQ CDFRANPNEP AKMNFSYGLT IKPKSF