Recombinant Human CYB5A Protein (1-108 aa), His-tagged

Cat. No. CYB5A-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYB5A Protein (1-108 aa), His-tagged, expressed in E. coli. CYB5A is a membrane-bound hemoprotein functioning as an electron carrier for membrane-bound oxygenases.
Species	Human
Source	E.coli
ProteinLength	1-108 aa
Description	Cytochrome b5 type A (CYB5A) is a membrane-bound hemoprotein that functions as an electron carrier for several membrane-bound oxygenases. It is involved in fatty acid desaturation, steroid biosynthesis, and xenobiotic metabolism. CYB5A deficiency leads to type IV hereditary methemoglobinemia (autosomal recessive). Three transcript variants encoding different isoforms have been identified.
Form	Liquid
Molecular Mass	14.9 kDa (132 aa including His-tag), confirmed by MALDI-TOF
AASequence	MAEQSDEAVKYYTLEEIQKHNHSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAG GDATENFEDVGHSTDAREMSKTFIIGELHPDDRPKLNKPPETLITTIDSSSSWWTNW VIPAISAVAVALMYRLYMAED
Purity	> 95% (by SDS-PAGE)

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	+2°C to +8°C for 1 week; -20°C to -80°C for long term storage; avoid freeze-thaw cycles
Concentration	1 mg/mL (Bradford assay)
Storage Buffer	20 mM Tris-HCl (pH 8.0), 20% glycerol, 0.1 M NaCl

GENE INFORMATION

Gene Name	CYB5A
Official Symbol	CYB5A
Synonyms	CYB5;MCB5;METAG
Gene ID	1528
mRNA Refseq	NM_148923.4
Protein Refseq	NP_683725.1
MIM	613218
UniProt ID	P00167

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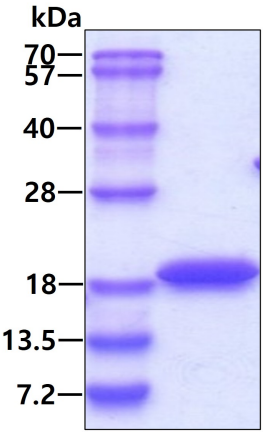
SDS-PAGE analysis of CYB5A-13H



3 ug/lane, reducing conditions, Coomassie Blue staining

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