

# Recombinant Full Length Human CYP2A13 Protein, GST-tagged

**Cat. No.** CYP2A13-2345HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CYP2A13 full-length ORF ( AA153001.1, 1 a.a. - 494 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 494 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum. Although its endogenous substrate has not been determined, it is known to metabolize 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanol, a major nitrosamine specific to tobacco. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008] |
| <b>Molecular Mass</b>   | 81.29 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MLASGLLLVTLACLTVMLMSVWRQRKSRGKLPPGPTPLPFIGNYLQLNTEQMYN<br>SLMKISERYGPVFTIHLGPRRVVVLCHDAVKEALVDQAEEFSGRGEQATFDWLFK<br>GYGVAFSNGERAKQLRRFSIATLRGFGVGKRGIEERIQQEAGFLIDALRGTHGANIDP<br>TFFLSRTVSNVISSIVFGDRFDYEDKEFLSLLRMMLGSGFQFTATSTGQLYEMFSSVM                                                                                                                                                                                                                                                                                                                                                                                              |

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KHLPGPQQQAFKELQGLEDFAKKVEHNQRTLDPNSPRDFIDSFLIRMQEEEEKNPNT  
 EFYLKNLVMTTNLNFFAGTETVSTTLRYGFLLLMKHPEVEAKVHEEIDRVIGKNRQPK  
 FEDRAKMPYTEAVIHEIQRFGDMLPMGLAHRVKNKDTKFRDFFLPKGTEVFPMLGSLV  
 RDPRFFSNPRDFNPQHFLDKKGQFKKSDAFVPFSIGKRYCFGEGLARMELFLFFTTI  
 MQNFRFKSPQSPKDIDVSPKHVGFATIPRNYTMSFLPR

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

CYP2A13 cytochrome P450, family 2, subfamily A, polypeptide 13 [ Homo sapiens ]

**Official Symbol**

CYP2A13

**Synonyms**

CYP2A13; cytochrome P450, family 2, subfamily A, polypeptide 13; cytochrome P450, subfamily IIA (phenobarbital inducible), polypeptide 13; cytochrome P450 2A13; CPAD; CYP2A; cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 13; CYP11A13;

**Gene ID**

1553

**mRNA Refseq**

NM\_000766

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|                |           |
|----------------|-----------|
| Protein Refseq | NP_000757 |
| MIM            | 608055    |
| UniProt ID     | Q16696    |

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