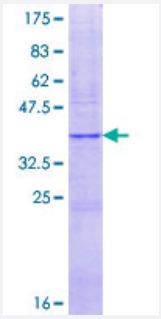
CYP2A13 (Human) Recombinant Protein (Q01)

Catalog # H00001553-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CYP2A13 partial ORF (NP_000757.2, 395 a.a. - 494 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	LGSVLRDPRFFSNPRDFNPQHFLDKKGQFKKSDAFVPFSIGKRYCFGEGLARMELFLFFTTIMQN FRFKSPQSPKDIDVSPKHVGFATIPRNYTMSFLPR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — CYP2A13

Entrez GeneID	1553
GeneBank Accession#	NM_000766
Protein Accession#	NP_000757.2
Gene Name	CYP2A13
Gene Alias	CPAD, CYP2A
Gene Description	cytochrome P450, family 2, subfamily A, polypeptide 13
Omim ID	608055
Gene Ontology	Hyperlink
Gene Summary	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 re ticulum. Although its endogenous substrate has not been determined, it is known to metabolize 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, a major nitrosamine specific to tobacco. This gene i s part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamil ies on chromosome 19q. [provided by RefSeq
Other Designations	cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 13

Pathway

- Caffeine metabolism
- Drug metabolism - cytochrome P450
- Drug metabolism - other enzymes

- Metabolic pathways
- Retinol metabolism

Disease

- Adenocarcinoma
- Carcinoma
- Disease Susceptibility
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Kidney Failure
- Laryngeal Neoplasms
- Leiomyomatosis
- Lung Neoplasms
- Mouth Neoplasms
- Neoplasms
- Pancreatic Neoplasms
- Pharyngeal Neoplasms
- Precancerous Conditions
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Uterine Neoplasms