

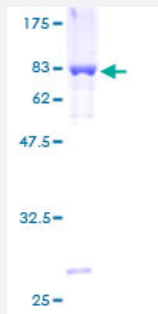
Full-Length

TBXAS1 (Human) Recombinant Protein (P01)

Catalog # H00006916-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human TBXAS1 full-length ORF (AAH14117, 1 a.a. - 466 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MELRKLYGPLCGYYLGRRMFVISEPDMIKQVLVENFSNFTNRMASGLEFKSVADSVLFLRDKRW
EEVRGALMSAFSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQRCYCNYTTDVVASVAFGT
PVDSWQAPEDPFVKHCKRFFFCIPRPILVLLSFPSIMVPLARILPNKNRDELNGFFNKLIRNVIAL
RDQQAAEERRRDFLQMVLDAHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLT
VDEIVGQAFIFLIAGYEIITNTLSFATYLLATNPDCQEKLREVDVFKEKHMAPEFCSLEEGLPYLDM
VIAETLRMYPPAFRFTREAAQDCEVLGQRIPAGAVLEMAVGALHHDPEHWPSPETFNPERFTAE
ARQQHRPFTYLPFGAGPRSCLGVRLLGLEVKLTLLHVLHKFRFQACPETQVPLQLESKSALGPKN
GVYIKVSR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

77.00

Interspecies Antigen Sequence

Mouse (82); Rat (80)

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 — TBXAS1

Entrez GeneID	6916
GeneBank Accession#	BC014117
Protein Accession#	AAH14117
Gene Name	TBXAS1
Gene Alias	CYP5, CYP5A1, GHOSAL, THAS, TS, TXAS, TXS
Gene Description	thromboxane A synthase 1 (platelet)
Omim ID	274180
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. However, this protein is considered a member of the cytochrome P450 superfamily on the basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostglandin H2 to thromboxane A2, a potent vasoconstrictor and inducer of platelet aggregation. The enzyme plays a role in several pathophysiological processes including hemostasis, cardiovascular disease, and stroke. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
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Other Designations

TXA synthase|cytochrome P450, family 5, subfamily A, polypeptide 1|platelet, cytochrome P450, subfamily V|thromboxane A synthase 1

Pathway

- [Arachidonic acid metabolism](#)
- [Metabolic pathways](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cerebral Infarction](#)
- [Chorioamnionitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Narcolepsy](#)
- [Neoplasms](#)

- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Stroke](#)
- [Tobacco Use Disorder](#)