

## Recombinant Human TBXAS1, MYC/DDK-tagged

**Cat. No.** TBXAS1-3148H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TBXAS1, transcript variant TXS-III, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>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.</p>
<b>Molecular Mass</b>	60.5 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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## GENE INFORMATION

<b>Gene Name</b>	TBXAS1 thromboxane A synthase 1 (platelet) [ Homo sapiens (human) ]
<b>Official Symbol</b>	TBXAS1
<b>Synonyms</b>	TBXAS1; thromboxane A synthase 1 (platelet); thromboxane A synthase 1 (platelet, cytochrome P450, subfamily V); thromboxane-A synthase; CYP5; CYP5A1; cytochrome P450; family 5; subfamily A; polypeptide 1; THAS; TS; TXAS; TXS; TXA synthase; cytochrome P450 5A1; platelet, cytochrome P450, subfamily V; cytochrome P450, family 5, subfamily A, polypeptide 1; thromboxane A synthase 1 (platelet, cytochrome P450, family 5, subfamily A); GHOSAL; BDPLT14; FLJ52771
<b>Gene ID</b>	6916
<b>mRNA Refseq</b>	NM_001130966
<b>Protein Refseq</b>	NP_001124438
<b>MIM</b>	274180
<b>UniProt ID</b>	P24557
<b>Chromosome Location</b>	7q34-q35
<b>Pathway</b>	Arachidonic acid metabolism; Biological oxidations; Defective CYP19A1 causes Aromatase excess syndrome (AEXS); Defective CYP21A2 causes Adrenal hyperplasia 3 (AH3)
<b>Function</b>	heme binding; monooxygenase activity; oxidoreductase activity, acting on paired

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donors, with incorporation or reduction of molecular oxygen

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