

Recombinant Human TBXAS1, MYC/DDK-tagged

Cat. No. TBXAS1-3149H **Lot. No.** (See product label)

SPECIFICATION

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

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GENE INFORMATION

Gene Name	TBXAS1 thromboxane A synthase 1 (platelet) [Homo sapiens (human)]
Official Symbol	TBXAS1
Synonyms	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
Gene ID	6916
mRNA Refseq	NM_001061
Protein Refseq	NP_001052
MIM	274180
UniProt ID	P24557
Chromosome Location	7q34-q35
Pathway	Arachidonic acid metabolism; Biological oxidations; Defective CYP19A1 causes Aromatase excess syndrome (AEXS); Defective CYP21A2 causes Adrenal hyperplasia 3 (AH3)
Function	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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