

# Recombinant Human TBXAS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TBXAS1-3007H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	TBXAS1 MS Standard C13 and N15-labeled recombinant protein (NP_001052) with a C-terminal MYC/DDK tag, 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>	60.6 kDa
<b>AA Sequence</b>	<p>MMEALGFLKLEVNGPMVTVALSVALLALLKWYSTSAFSRLEKLGLRHPKPSFIGNL  TFFRQGFWESQMELRKLYGPLCGYYLGRRMFIVISEPDMIKQVLVENFSNFTNRMA  SGLEFKSVADSVLFLRDKRWEEVRGALMSAFSPEKLNEMVPLISQACDLLLAHLKRY</p>

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AESGDAFDIQRCYCNYYTTDVVASVAFGTPVDSWQAPEDPFVKHCKRFFFEFCIPRPIL  
 VLLLSFSPSIMVPLARILPNKNRDELNGFFNKLIRNVIALRDQQAEEERRRDFLQMVLVLD  
 ARHSASPMGVQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIA  
 GYEIITNTLSFATYLLATNPDCQEKLLREVDVFKEKHMMAPEFCSLEEGLPYLDMVIAET  
 LRMYPFAFRFTREAAQDCEVLGQRIPAGAVLEMAVGALHHDPEHWSPETFNPERF  
 TAEARQQHRPFTYLPFGAGPRSCGLVRLGLLEVKLTLLHVLHKFRFQACPETQVPLQ  
 LESKSALGPKNGVYIKIVSRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [TBXAS1 thromboxane A synthase 1 \[ 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;

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**Gene ID** 6916

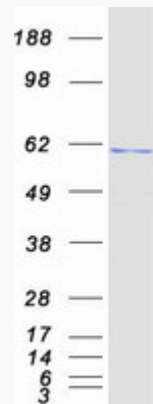
**mRNA Refseq** NM\_001061

**Protein Refseq** NP\_001052

**MIM** 274180

**UniProt ID** P24557

**SDS-PAGE**



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