

Product Information

MemDX™ Membrane Protein Human TBXAS1 (Thromboxane A synthase 1) Full Length

Cat. No.: **MPC3481K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human TBXAS1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

TBXAS1

Protein Length

Full length

Protein Class

Oxidoreductase

TMD

4

Sequence

MEALGFLKLEVNGPMVTVALSVALLALLKWYSTSAFSRLEKLGLRHPKPS
PFIGNLTFFRQGFWESQMELRKLYGPLCGYYLGRRMFIVISEPDMIKQVL
VENFSNFTNRMASGLEFKSVADSVLFLRDKRWEEVRGALMSAFSPEKLNE
MVPLISQACDLLLAHLKRYAESGDAFDIQRCYCNYTTDVVASVAFGTPVD
SWQAPEDPFVKHCKRFFEFICIPRPILVLLSFPSIMVPLARILPNKNRDE
LNGFFNKLIRNVIALRDQQAAEERRRDFLQMVLDARHSASPMGVQDFDIV
RDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIITNTL
SFATYLLATNPDCQEKLLREVDVFKEKHMAPEFCSLEEGLPYLDMVIAET
LRMYPPAFRFTREAAQDCEVLGQRIPAGAVLEMAVGALHHDPEHWSPET
FNPERFTAEARQQHRPFTYLPFGAGPRSCLGVRLGLLEVKLTLHVLHKF
RFQACPETQVPLQLESKSALGPKNGVYIKIVSR

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

TBXAS1

Full Name

Thromboxane A synthase 1

Introduction

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.

Alternative Names

TBXAS1; TS; TXS; CYP5; THAS; TXAS; CYP5A1; GHOSAL; BDPLT14; thromboxane-A synthase; TXA synthase; cytochrome P450 5A1; cytochrome P450, family 5, subfamily A, polypeptide 1; hydroperoxy icosatetraenoate dehydratase; platelet, cytochrome P450, subfamily V; thromboxane A synthase 1 (platelet); Thromboxane A synthase 1

Gene ID

[6916](#)

UniProt ID

[P24557](#)