



Daresbury Proteins

Product description

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Name: Recombinant Human Thrombospondin Type-1 Domain-Containing Protein 7A, THSD7A

Synonyms: Thrombospondin Type-1 Domain-Containing Protein 7A

Species: Human

Source: HEK293

Amino Acids: 48-1171

Tag: 10xHis at the C terminus

Predicted Molecular Weight: 127.6 kDa

Protein ID: Q9UPZ6

Sequence:

AAQGEAEAPTLYLWKTGPWGRMCMGDECGPGGIQTRAVWCAHVEGWTTLHTNCKQAERPNNQQNCFKVCDDWHKELYD
 WRLGPWNQCQPVISKSLEKPLECIKGEEGIQVREIACIQKDKDIPAEDIICEYFEPKPLLEQAQLIPCQQDCIVSEFSAWSECS
 KTCGSLQHRTRHVVAPPQFGGSGCPNLTEFQVCQSSPCEAEELRYSLHVGPWSTCSMPHSRQVRQARRRGKNKEREKD
 RSKGVKDPEARELIKKRNRNRNRQNRQENKYWDIQIGYQTREVMCINKTGKAADLSFCQEQKLPMTFQSCVITKECQVSE
 WSEWSPCSKTCHDMVSPAGTRVTRTRIRQFPIGSEKECEPEFEEKEPCLSQGDGVVPCATYGWRTTEWTECRVDPLLSQQ
 DKRRGNQTALCGGGIQTREYVCVQANENLLSQLSTHKNKEASKPMDLKLCTGPIPNTTQLCHIPCPTCEVSPWSAWGPC
 TYENCNDQQGKKGFKLRKRITNEPTGGSGVTGNCPHLEAIPCEEPACYDWKAVRLGNCEPDNGKECGPGTQVQEVVCI
 NSDGEEVDRLCRDAIFPIPVACDAPCPKDCVLSTWSTWSSCSHTCSGKTTEGKQIRARSILAYAGEEGGIRCPNSSALQEV
 RSCNEHPCTVYHWQTGPWGQCIEDTSVSSFNTTTTWNGEASCSVMQTRKVICVRVNVGQVGPKKCPESLRPETVRPCL
 LPCKKDCIVTPYSDWTSCPSSCKEGDSSIRKQSRHRVHIIQLPANGGRDCTDPLYEEKACEAPQACQSYRWKTHKWRRRCQL
 VPWSVQQDSPGAQEGCGPGRQARAITCRKQDGGQAGIHECLQYAGVVPALTQACQIPCQDDCQLTWSKFSSCNGDCGA
 VRTRKRTLVGKSKKKEKCKNSHLYPLIETQYPCDKYNAQPVGNWSDCILPEGKVEVLLGMKVQGDIKECGQGYRYQAM
 ACYDQNGRLVETSRCSNHGYIEEACIIPCSDCKLSEWSNWSRCSKSCGSGVKVRSKWLREKPYNGGRPCPKLDHVNQAQ
 VYEVVPCHSDCNQYLWVTEPWSICKVTFVNMRENGEGVQTRKVRMCMQNTADGPSEHVEDYLCDPEEMPLGSRVCKLPC
 PEDCVISEWGSQHSHHHHHHHHHH

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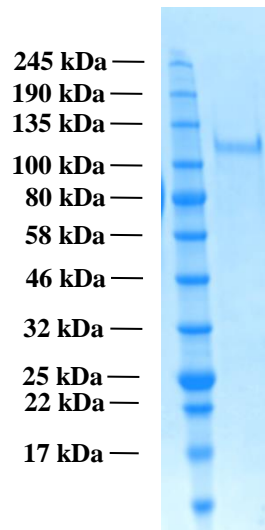
Web address: www.daresburyproteins.co.uk Tel: +44 7398 623734 Email: myprotein@daresburyproteins.co.uk

Product specifications

Estimated Molecular Weight, SDS-PAGE: \approx 120 kDa

Grade & Purity: >95% as estimated by SDS-PAGE stained with Instant Blue Stain (Expedeon).

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Endotoxins: Less than 0.1 ng/ μ g (1 IEU/ μ g), as measured by LAL method.

Formulation: PBS 20% Glycerol

Shipping

Product is shipped either on dry or wet ice. Upon receipt, store at -20°C to -70°C.

Product application and Storage

Storage: The protein should be stored at -20°C to -70°C preferably in small aliquots to avoid repeated freeze-thaw cycles.

Stability: At least 12 months at -20°C to -70°C and at least 1 month at 2°C to 8°C.

Application Note: For research purposes only. Not for use in humans.

Background Information

THSD7A was first identified as an endothelial protein that is expressed in the vascular system of the placenta (1). It is expressed by cells of endothelial and neuronal lineage. The soluble form of THSD7A promotes endothelial cell migration and filopodia formation during angiogenesis via a FAK-dependent mechanism (2). This protein may be involved in cytoskeletal organization. Variations in this gene may be associated with low bone mineral density in osteoporosis.

THSD7A is expressed on podocytes and is responsible for 2-5% of patients with idiopathic membranous nephropathy (3, 4, 5).

References:

1. Wang et al. (2010) *J. Cell Physiol.*, 685-694
2. Kuo et al. (2011) *PLoS ONE*, E29000
3. Tomas et al. (2014) *New Engl. J. Med.*, 2277-2287
4. Tomas et al. (2016) *J. Clin. Invest.*, 2519-2532
5. Hoxha and Stahl. (2017) *Semin. Nephrol.*, 436-446