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## Datasheet for ABIN7560741 **TECR Protein (AA 1-308) (His tag)**

### Overview

Quantity:	1 mg
Target:	TECR
Protein Characteristics:	AA 1-308
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TECR protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Tecr Protein expressed in mammalian cells.
Sequence:	MKHYEVEIRD AKTREKLCFL DKVEPQATIS EIKTLFTKTH PQWYPARQSL RLDPKGKSLK DEDVLQKLPV GTTATLYFRD LGAQISWVTV FLTEYAGPLF IYLLFYFRVP FIYGRKYDFT SSRHTVVHLA CMCHSFHYIK RLLETFLVHR FSHGTMPLRN IFKNCTYYWG FAAWMAYYIN HPLYTPPTYG VQQVKLALAV FVICQLGNFS IHMALRDLRP AGSKTRKIPY PTKNPFTWLF LLVSCPNTY EVGSWIGFAI LTQCVPVALF SLVGFTQMTI WAKGKHRSYL KEFRDYPPLR MPIIPFLL <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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## Target Details

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Target:	TECR
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Alternative Name:	Tecr ( <a href="#">TECR Products</a> )
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Background:	Very-long-chain enoyl-CoA reductase (EC 1.3.1.93) (Synaptic glycoprotein SC2) (Trans-2,3-enoyl-CoA reductase) (TER),FUNCTION: Involved in both the production of very long-chain fatty acids for sphingolipid synthesis and the degradation of the sphingosine moiety in sphingolipids through the sphingosine 1-phosphate metabolic pathway (By similarity). Catalyzes the last of the four reactions of the long-chain fatty acids elongation cycle (By similarity). This endoplasmic reticulum-bound enzymatic process, allows the addition of 2 carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle (By similarity). This enzyme reduces the trans-2,3-enoyl-CoA fatty acid intermediate to an acyl-CoA that can be further elongated by entering a new cycle of elongation (By similarity). Thereby, it participates in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators (By similarity). Catalyzes the saturation step of the sphingosine 1-phosphate metabolic pathway, the conversion of trans-2-hexadecenoyl-CoA to palmitoyl-CoA (By similarity). {ECO:0000250 UniProtKB:Q9NZ01}.
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Molecular Weight:	36.1 kDa
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## Target Details

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UniProt: [Q9CY27](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months