

Datasheet for ABIN7551827
ACER3 Protein (AA 1-267) (His tag)



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Overview

Quantity:	1 mg
Target:	ACER3
Protein Characteristics:	AA 1-267
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACER3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ACER3 Protein expressed in mammalian cells.
Sequence:	MAPAADREGY WGPTTSTLDW CEENYSVTWY IAEFWNTVSN LIMIIPPMFG AVQSVRDGLE KRYIASYLAL TVVGMGSWCF HMTLKYEMQL LDELPMIYSC CIFVYCMFEC FKIKNSVNYH LLFTLVLFSL IVTTVYLKVK EPIFHQVMYG MLVFTLVLRS IYIVTWVYPW LRGLGYTSLG IFLLGFLFWN IDNIFCESLR NFRKKVPPII GITTQFHAWW HILTGLGSYL HILFSLYTRT LYLRYPKVK FLFGIWPVIL FEPLRKH 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.
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: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- 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.

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

Target Details

Target:	ACER3
Alternative Name:	ACER3 (ACER3 Products)
Background:	Alkaline ceramidase 3 (AlkCDase 3) (Alkaline CDase 3) (EC 3.5.1.-) (EC 3.5.1.23) (Alkaline dihydroceramidase SB89) (Alkaline phytoceramidase) (aPHC),FUNCTION: Endoplasmic reticulum and Golgi ceramidase that catalyzes the hydrolysis of unsaturated long-chain C18:1-, C20:1- and C20:4-ceramides, dihydroceramides and phytoceramides into sphingoid bases like sphingosine and free fatty acids at alkaline pH (PubMed:20068046, PubMed:26792856, PubMed:20207939, PubMed:11356846, PubMed:30575723). Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation (PubMed:20068046). Controls the generation of sphingosine in erythrocytes, and thereby sphingosine-1-phosphate in plasma (PubMed:20207939). Through the regulation of ceramides and sphingosine-1-phosphate homeostasis in the brain may play a role in neurons survival and function (By similarity). By regulating the levels of pro-inflammatory ceramides in immune cells and tissues, may modulate the inflammatory response (By similarity). {ECO:0000250 UniProtKB:Q9D099, ECO:0000269 PubMed:11356846, ECO:0000269 PubMed:20068046, ECO:0000269 PubMed:20207939,

Target Details

ECO:0000269|PubMed:26792856, ECO:0000269|PubMed:30575723,
ECO:0000303|PubMed:20068046}.

Molecular Weight: 31.6 kDa

UniProt: [Q9NUN7](#)

Application Details

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

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