

Recombinant Full Length Human ACER1 Protein, C-Flag-tagged

Cat. No. ACER1-1828HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACER1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Ceramides are synthesized during epidermal differentiation and accumulate within the interstices of the stratum corneum, where they represent critical components of the epidermal permeability barrier. Excess cellular ceramide can trigger antimitogenic signals and induce apoptosis, and the ceramide metabolites sphingosine and sphingosine-1-phosphate (S1P) are important bioregulatory molecules. Ceramide hydrolysis in the nucleated cell layers regulates keratinocyte proliferation and apoptosis in response to external stress. Ceramide hydrolysis also occurs at the stratum corneum, releasing free sphingoid base that functions as an endogenous antimicrobial agent. ACER1 is highly expressed in epidermis and catalyzes the hydrolysis of very long chain ceramides to generate sphingosine.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	30.9 kDa
AA Sequence	MPSIFAYQSSEVDWCESNFQYSELVAEFYNTFSNIPFFIFGPLMMLLMHPYAQKRSR YIYVWVLFMIIG LFSMYFHMTLSFLGQLLDEIALWLLGSGYSIWMPRCYFPSFLGG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NRSQFIRLVFITTVVSTLLSFLRPT VNAYALNSIALHILYIVCQEYRKTSNKELRHLIEV
SVVLWAVALTSWISDRLLCSFWQRIHFFYLHSIWH VLISITFPYGMVTMALVDANYE
MPGETLKVRYWPRDSWPVGLPYVEIRGDDKDC TRTRPLEQKLISEEDLAANDILDY
KDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Metabolic pathways, Sphingolipid metabolism
Full Length	Full L.

GENE INFORMATION

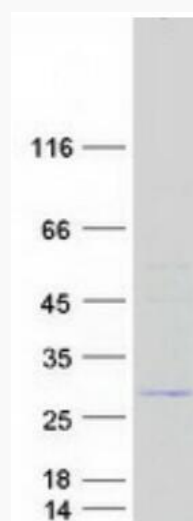
Gene Name	ACER1 alkaline ceramidase 1 [Homo sapiens (human)]
Official Symbol	ACER1
Synonyms	ASAH3; ALKCDase1

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID	125981
mRNA Refseq	NM_133492.3
Protein Refseq	NP_597999.1
MIM	613491
UniProt ID	Q8TDN7



Coomassie blue staining of purified ACER1 protein.