

# **Product datasheet for TP311332**

#### OriGene Technologies, Inc.

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## ASAH3 (ACER1) (NM\_133492) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human alkaline ceramidase 1 (ACER1), 20 μg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC211332 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MPSIFAYQSSEVDWCESNFQYSELVAEFYNTFSNIPFFIFGPLMMLLMHPYAQKRSRYIYVVWVLFMIIG LFSMYFHMTLSFLGQLLDEIAILWLLGSGYSIWMPRCYFPSFLGGNRSQFIRLVFITTVVSTLLSFLRPT VNAYALNSIALHILYIVCQEYRKTSNKELRHLIEVSVVLWAVALTSWISDRLLCSFWQRIHFFYLHSIWH VLISITFPYGMVTMALVDANYEMPGETLKVRYWPRDSWPVGLPYVEIRGDDKDC

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

Tag: C-Myc/DDK
Predicted MW: 30.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

 RefSeq:
 NP 597999

 Locus ID:
 125981

 UniProt ID:
 Q8TDN7



#### ASAH3 (ACER1) (NM\_133492) Human Recombinant Protein - TP311332

RefSeq Size: 1088

Cytogenetics: 19p13.3 RefSeq ORF: 792

Synonyms: ALKCDase1; ASAH3

Summary: Ceramides are synthesized during epidermal differentiation and accumulate within the

interstices of the stratum corneum, where they represent critical components of the

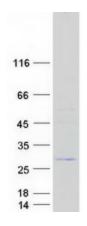
epidermal permeability barrier. Excess cellular ceramide can trigger antimitogenic signals and induce apoptosis, and the ceramide metabolites sphingosine and sphingosine-1-phosphate (S1P) are important bioregulatory molecules. Ceramide hydrolysis in the nucleated cell layers regulates keratinocyte proliferation 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 (Houben et al., 2006

[PubMed 16477081]; Sun et al., 2008 [PubMed 17713573]).[supplied by OMIM, Jul 2010]

**Protein Families:** Transmembrane

**Protein Pathways:** Metabolic pathways, Sphingolipid metabolism

## **Product images:**



Coomassie blue staining of purified ACER1 protein (Cat# TP311332). The protein was produced from HEK293T cells transfected with ACER1 cDNA clone (Cat# [RC211332]) using MegaTran 2.0 (Cat# [TT210002]).