

Human CREB3L1 / OASIS Protein (aa 396-519, His Tag)

Catalog Number: 12712-H08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

OASIS

Protein Construction:

A DNA sequence encoding the human CREB3L1 (Q96BA8-1) (Glu396-Ser519) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 396

Molecular Mass:

The recombinant human CREB3L1 consists of 135 amino acids and predicts a molecular mass of 15.2 KDa. It migrates as an approximately 21-31 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, PH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

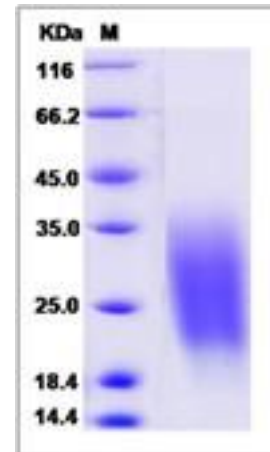
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CREB3L1, also known as OASIS, is a cellular transcription factor synthesized as a membrane-bound precursor. It is a putative endoplasmic reticulum (ER) stress sensor in astrocytes with a mechanism of activation. OASIS mRNA expression was detected in pancreatic β -cell lines and rodent islets, and the expression level was up-regulated by ER stress-inducing compounds. CREB3L1 may have a role in pancreas development. CREB3L1 may also play an important role in limiting virus spread by inhibiting proliferation of virus-infected cells. In vitro, CREB3L1 binds to box-B element, cAMP response element (CRE) and CRE-like sequences, and activates transcription through box-B element but not through CRE. It may play a role in gliosis.

References

1.Denard B. et al., 2011, Cell Host Microbe. 10 (1): 65-74. 2.Debelenko LV. et al., 2011, 50 (12): 1054-62. 3.Vellanki. et al., 2010, Endocrinology. 151 (9): 4146.

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