



## Recombinant Protein Technical Manual

Recombinant Human CREB3L1/OASIS Protein (aa  
396-519, His Tag)  
RPES2053

### Product Data:

**Product SKU:** RPES2053

**Size:** 20µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** Q96BA8

### Protein Information:

**Molecular Mass:** 15.2 kDa

**AP Molecular Mass:** 21-31 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, PH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** OASIS;PSEC0238

## Immunogen Information:

**Sequence:** Glu396-Ser519

## Background:

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  $\beta$ -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.