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

Catalog No. PKSH030791

Note: Centrifuge before opening to ensure complete recovery of vial contents.

| Description | | |
|-----------------------------|---|--|
| Synonyms | OASIS;PSEC0238 | |
| Species | Human | |
| Expression Host | HEK293 Cells | |
| Sequence | Glu396-Ser519 | |
| Accession | Q96BA8-1 | |
| Calculated Molecular Weight | 15.2 kDa | |
| Observed molecular weight | 21-31 kDa | |
| Tag | C-His | |
| Bioactivity | Not validated for activity | |
| Properties | | |
| Purity | > 95 % as determined by reducing SDS-PAGE. | |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. | |
| Storage | Generally, 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 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. | |
| Reconstitution | Please refer to the printed manual for detailed information. | |

Data

| KDa | MK | R |
|--------------|----|---|
| 116 | - | |
| 66.2 | - | |
| 45.0 | - | |
| 35.0 | - | |
| 25.0 | - | |
| 18.4 14.4 | : | |

> 95 % as determined by reducing SDS-PAGE.

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

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expression was detected in pancreatic β -cell lines and rodent islets, and the expression level was up-regulated by ER stressinducing 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.

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