

Datasheet for ABIN7319653

CREG1 Protein (His tag)



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Overview

Quantity:	50 µg
Target:	CREG1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CREG1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CREG/CREG1 Protein (His Tag)
Sequence:	Arg32-Gln220
Characteristics:	Recombinant Human CREG is produced by our Mammalian expression system and the target gene encoding Arg32-Gln220 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CREG1
Alternative Name:	CREG/CREG1 (CREG1 Products)
Background:	Background: Cellular repressor of E1A genes (CREG) is an evolutionarily conserved lysosomal protein, and an important new factor in regulating tissue homeostasis that has been shown to antagonize injury of tissues or cells. CREG contains three mannose 6-phosphate (M6P)

Target Details

markers, and depends on interactions with M6P receptors for efficient delivery to lysosomes, which is implicated in the regulation of lysosomal functions. This protein shares limited sequence similarity with E1A and binds both the general transcription factor TBP and the tumor suppressor pRb in vitro. CREG plays an important role in the control of cell growth and differentiation. It has been shown that CREG antagonizes transcriptional and cellular transformation by the adenoviral E1A oncoprotein, induces differentiation while attenuating cellular proliferation, regulates the levels of the signaling kinases ERK1/2, and mediates glucocorticoid-induced proliferation of ileal epithelial cells. CREG is widely expressed in adult tissues, such as the brain, heart, lungs, liver, intestines and kidneys in mice, but is not markedly expressed in pluripotent embryonic stem cells.

Synonym: CREG1, cellular repressor of E1A-stimulated genes, cellular repressor of E1A-stimulated genes 1CREG, protein CREG1

Molecular Weight: 21.9 kDa

UniProt: [O75629](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: 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.