Datasheet for ABIN2468275

Betacellulin Protein (BTC)

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Overview

Quantity:	0.005 mg
Target:	Betacellulin (BTC)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	DGNTTRTPET NGSLCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR CRFVVDEQTP SCICEKGYFG ARCERVDLFY
Characteristics:	Biological activity was determined by its ability to stimulate the proliferation of mouse Balb/3T3 cells. The expected ED50 is < 0.01 ng/mL, corresponding to a specific activity of > 1 x 10^8 units/mg.
Purity:	< 98 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per µg (1 EU/µg).

Target Details

Target:	Betacellulin (BTC)
Alternative Name:	Betacellulin (BTC Products)
Background:	Betacellulin is an EGF-related polypeptide growth factor that signals through the EGF receptor. It is produced in several tissues, including the pancreas, small intestine, and in certain tumor

Target Details

	cells. Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells. Betacellulin is initially synthesized as a glycosylated 32.0 kDa transmembrane precursor protein, which is processed by proteolytic cleavage to produce the mature sequence. Recombinant murine Betacellulin is a 9.0 kDa monomeric protein, containing 80 amino residues, which comprises the mature EGF homologous portion of the Betacellulin protein.
Gene ID:	12223
NCBI Accession:	NP_031594
OMIM:	6680812
UniProt:	Q05928
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Handling Advice:	As with any protein, exposing Betacellulin recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Storage:	-20 °C
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted Betacellulin stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.
Expiry Date:	24 months