

Datasheet for ABIN7320473

Betacellulin Protein (BTC) (His tag)



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Overview

Quantity:	50 µg
Target:	Betacellulin (BTC)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Betacellulin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Betacellulin/BTC Protein (His Tag)
Sequence:	Asp32-Gln118
Characteristics:	Recombinant Mouse Betacellulin is produced by our E.coli expression system and the target gene encoding Asp32-Gln118 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Betacellulin (BTC)
Alternative Name:	Betacellulin/BTC (BTC Products)
Background:	Background: Mouse Betacellulin is a single type I membrane protein which belongs to the EGF family of cytokines. EGF family has many members including EGF, TGF-α, Amphiregulin, HB-EGF, Epiregulin, Tomoregulin and the Neuregulins. Betacellulin is characterised by a six-cysteine

Target Details

consensus motif that forms three intra-molecular disulfide bonds crucial for binding the ErbB receptor family. Betacellulin is expressed in several tissues and tumor cells including kidney, uterus, liver, pancreas and small intestine. Betacellulin binds and activates ErbB-1 and ErbB-4 homodimers. Betacellulin is thought to play a role in the differentiation of pancreatic beta cells. Human and mouse mature BTC protein are 80 % identical at the amino acid sequence level. Betacellulin is involved in many biological processes such as stimulating gastrointestinal growth. It is proteolytically processed from a larger membrane-anchored precursor and is a potent mitogen for a wide variety of cell types.

Synonym: Btc, Betacellulin, Betacellulin, epidermal growth factor family member, Betacellulin, epidermal growth factor family member, isoform CRA_a, mCG_12529

Molecular Weight:	12.2 kDa
UniProt:	Q543J8
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only
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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.