Datasheet for ABIN2017690

Betacellulin Protein (BTC) (AA 32-111)

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Overview

Quantity:	50 µg
Target:	Betacellulin (BTC)
Protein Characteristics:	AA 32-111
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 <0.5 ng/mL, measured by a cell proliferation assay using3T3cells, corresponding to a specific activity of>2× 10^6 units/mg. AA 32-111, expressed with an N-terminal Met.
Purity:	> 95 % by SDS-PAGE analysis.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	Betacellulin (BTC)
Alternative Name:	Betacellulin (BTC Products)
Background:	Betacellulin is a pleiotropic cytokine that belongs to the Epidermal Growth Factor (EGF) family. Like other members of the EGF family, Betacellulin possesses a conserved sequence of 35-40 amino acids which contain 3 disulfide bonds formed by 6 cysteines. Betacellulin is unique in the

Target Details

	EGF family since it can bind and activate a broad spectrum of ErbB receptors. Functionally, Betacellulin plays a role in the development of the pancreas by activating signaling pathways beneficial for the function, survival and regeneration of pancreatic beta-cells. Additionally, Betacellulin has potential angiogenic activities and is important for the growth, development and repair of certain tissues.Recombinant mouse Betacellulin (rmBetacellulin) produced in E. coli is a single non-glycosylated polypeptide chain containing 81 amino acids. A fully biologically active molecule, rmBetacellulin has a molecular mass of 9.2 kDa analyzed by reducing SDS-PAGE. Synonyms: BTC
Molecular Weight:	9.2 kDa, observed by reducing SDS-PAGE.
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
Reconstitution:	Reconstituted in ddH2O at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against 50 mM Tris, 300 mM NaCl, pH 9.0.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant mouse Betacellulin (rmBetacellulin) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmBetacellulin remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.
Expiry Date:	6 months