

FGF16 active protein

FGF16 Protein, Human, Cynomolgus, Recombinant

CATALOG #
AAA258039

HOST
Baculovirus-Insect Cells

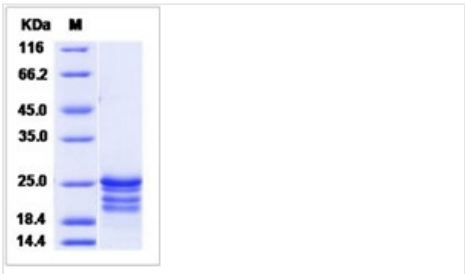
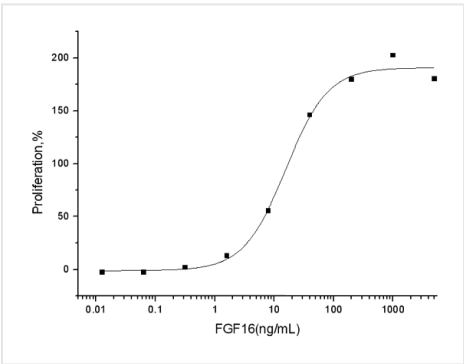
PRODUCT SYNONYMS

FGF16; FGF16 Protein; Human; Cynomolgus; Recombinant; Human/Cynomolgus FGF16/FGF-16 Protein; fibroblast growth factor 16; FGF16 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 1 M NaCl, pH8.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Arg207
Species	Human, Cynomolgus
Activity	Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 5-15ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Met
Tag	Native
Protein Construction	A DNA sequence encoding the human/cynomolgus FGF16 [(Identical to the human FGF16 (NP_003859.1)) (Met1-Arg207) was expressed. Human and Cynomolgus FGF16 sequences are identical.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 5-15 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for FGF16 active protein

Background: Fibroblast growth factor 16 (FGF16) is preferentially expressed in the heart after birth, suggesting its regulation is associated with tissue-specific chromatin remodeling and DNA-protein interactions. Mutation of the MEF2 site resulted in a blunting of FGF16 promoter activity in transfected neonatal rat cardiac myocytes, that chromatin remodeling and MEF2 binding in the FGF16 promoter contribute to expression in the postnatal heart. FGF16 involvement in the fine tuning of the human skeleton of the hand. Impaired FGF16 function may also be responsible for connective tissue symptoms in MF4 patients. FGF16 expression is markedly increased in ovarian tumors, and FGF16 in conjunction with Wnt pathway contributes to the cancer phenotype of ovarian cells and suggests that modulation of its expression in ovarian cells might be a promising therapeutic strategy for the treatment of invasive ovarian cancers.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503691
NCBI GeneID	8823
NCBI Accession #	NP_003859.1
NCBI GenBank Nucleotide #	NM_003868.2
UniProt Accession #	O43320
Molecular Weight	23,759 Da
NCBI Official Full Name	fibroblast growth factor 16
NCBI Official Synonym Full Names	fibroblast growth factor 16
NCBI Official Symbol	FGF16
NCBI Official Synonym Symbols	MF4; FGF-16
NCBI Protein Information	fibroblast growth factor 16
UniProt Protein Name	Fibroblast growth factor 16
UniProt Gene Name	FGF16
UniProt Synonym Gene Names	FGF-16
UniProt Entry Name	FGF16_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

