abcam

Product datasheet

Recombinant rat FGF10 protein ab203715

Description

Product name	Recombinant rat FGF10 protein
Biological activity	Fully biologically active when compared to standard. The ED_{50} as determined by a cell proliferation assay using monkey 4MBr-5 cells is less than 120 ng/ml, corresponding to a specific activity of > 8.3×10^3 IU/mg.
Purity	> 97 % SDS-PAGE. > 97 % by HPLC.
Expression system	Escherichia coli
Accession	P70492
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	QALGQDMVSPEATNSSSSSSSSSSSSSFSSPSSAGRHV RSYNHLQGDVRW RKLFSFTKYFLKIEKNGKVSGTKKENCPYSILEITSVEIGVV AVKAINSN YYLAMNKKGKLYGSKEFNNDCKLKERIEENGYNTYASFNW QHNGRQMYVA LNGKGAPRRGQKTRRKNTSAHFLPMVVHS
Predicted molecular weight	20 kDa
Amino acids	37 to 215
Additional sequence information	This product is for the mature full length protein. The signal peptide is not included.

Specifications

Our Abpromise guarantee covers the use of **ab203715** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE HPLC Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle. pH: 7.40 Constituents: 5% Trehalose, 2.9% Sodium chloride, 0.24% Tris This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

General Info

Function	Could be a growth factor active in the process of wound healing. Acts as a mitogen in the lung. May act in a manner similar to FGF-7.
Involvement in disease	Defects in FGF10 are the cause of autosomal dominant aplasia of lacrimal and salivary glands (ALSG) [MIM:180920]. ALSG has variable expressivity, and affected individuals may have aplasia or hypoplasia of the lacrimal, parotid, submandibular and sublingual glands and absence of the lacrimal puncta. The disorder is characterized by irritable eyes, recurrent eye infections, epiphora (constant tearing) and xerostomia (dryness of the mouth), which increases the risk of dental erosion, dental caries, periodontal disease and oral infections. Defects in FGF10 are a cause of lacrimo-auriculo-dento-digital syndrome (LADDS) [MIM:149730]; also known as Levy-Hollister syndrome. LADDS is a form of ectodermal dysplasia, a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. LADDS is an autosomal dominant syndrome characterized by aplastic/hypoplastic lacrimal and salivary glands and ducts, cup-shaped ears, hearing loss, hypodontia and enamel hypoplasia, and distal limb segments anomalies. In addition to these cardinal features, facial dysmorphism, malformations of the kidney and respiratory system and abnormal genitalia have been reported. Craniosynostosis and severe syndactyly are not observed.
Sequence similarities	Belongs to the heparin-binding growth factors family.
Cellular localization	Secreted.

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