

Product datasheet

Recombinant rat FGF9/GAF protein ab200242

Description

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| Product name | Recombinant rat FGF9/GAF protein |
| Biological activity | Fully biologically active when compared to standard. The ED ₅₀ as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁶ IU/mg. |
| Purity | > 95 % SDS-PAGE. Purity: >95% by SDS-PAGE and HPLC analyses. |
| Endotoxin level | < 1.000 Eu/μg |
| Expression system | Escherichia coli |
| Accession | <u>P36364</u> |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Species | Rat |
| Sequence | LGEVGSYFGVQDAVPFGNVPVLPVDSPVLLSDHLGQSEA GGLPRGPAVTD LDHLKGILRRRQLYCRTGFHLEIFPNGTIQGTRKDHSRFGIL EFISIAVG LVSIRGVDSGLYLG MNEKGELYGSEKLTQECVFREQFEEN WYNTYSSNLY KHVDTGRRYYVALNKDGTTPREGTRTKRHQKFTHFLPRPV DPDKVPELYKD ILSQS |
| Predicted molecular weight | 23 kDa |
| Amino acids | 4 to 208 |
| Additional sequence information | Single non-glycosylated polypeptide chain containing 205 amino acids. This product is the mature full length protein from aa 4 to 208. The propeptide is not included. |

Specifications

Our **Abpromise guarantee** covers the use of **ab200242** in the following tested applications.

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

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| Applications | HPLC SDS-PAGE |
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Functional Studies

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| Form | Lyophilized |
| Additional notes | Previously labelled as FGF9. |

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Reconstitute for long term storage.

pH: 8.00

Constituents: 0.24% Tris, 2.32% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at = -20 °C. Further dilutions should be made in appropriate buffered solutions.

General Info

Function May have a role in glial cell growth and differentiation during development, gliosis during repair and regeneration of brain tissue after damage, differentiation and survival of neuronal cells, and growth stimulation of glial tumors.

Tissue specificity Glial cells.

Involvement in disease Defects in FGF9 are the cause of multiple synostoses syndrome type 3 (SYNS3) [MIM:612961]. Multiple synostoses syndrome is an autosomal dominant condition characterized by progressive joint fusions of the fingers, wrists, ankles and cervical spine, characteristic facies and progressive conductive deafness.

Sequence similarities Belongs to the heparin-binding growth factors family.

Post-translational modifications Three molecular species were found (30 kDa, 29 kDa and 25 kDa), cleaved at Leu-4, Val-13 and Ser-34 respectively. The smaller ones might be products of proteolytic digestion. Furthermore, there may be a functional signal sequence in the 30 kDa species which is uncleavable in the secretion step.

N-glycosylated.

Cellular localization Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

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