abcam

Product datasheet

Recombinant mouse GDNF protein ab187211

1 Image

Description

Product name	Recombinant mouse GDNF protein
Biological activity	Determined by the dose-dependent proliferation of C6 cells and is typically less than 1 µg/mL.
Purity	> 98 % SDS-PAGE. Purity (typically = 98%) determined by: Reducing and Non-reducing SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	P48540
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MSPDKQAAL PRRENRNRQAA AASPENSRGK GRRGQRGKNR GCVLTAIHLN VTDLGLGYET KEELIFRYCS GSCESAETMY DKILKNLSRS RRLTSDKVGQ ACCRPVAFDD DLSFLDDNLV YHILRKHSAK RCGCI
Predicted molecular weight	30 kDa
Amino acids	78 to 211
Additional sequence information	ab187211 is a non-glycosylated homodimer, containing two 135 amino acid chains.

Specifications

Our **Abpromise guarantee** covers the use of **ab187211** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C long term. For long term storage it is

recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

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

Reconstitution

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. DO NOT VORTEX. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

General Info

Function

Neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake.

Tissue specificity

In the brain, predominantly expressed in the striatum with highest levels in the caudate and lowest in the putamen.

Involvement in disease

Defects in GDNF may be a cause of Hirschsprung disease (HSCR) [MIM:142623]. In association with mutations of RET gene, defects in GDNF may be involved in Hirschsprung disease. This genetic disorder of neural crest development is characterized by the absence of intramural ganglion cells in the hindgut, often resulting in intestinal obstruction.
Defects in GDNF are a cause of congenital central hypoventilation syndrome (CCHS) [MIM:209880]; also known as congenital failure of autonomic control or Ondine curse. CCHS is a rare disorder characterized by abnormal control of respiration in the absence of neuromuscular or lung disease, or an identifiable brain stem lesion. A deficiency in autonomic control of respiration results in inadequate or negligible ventilatory and arousal responses to hypercapnia and hypoxemia.

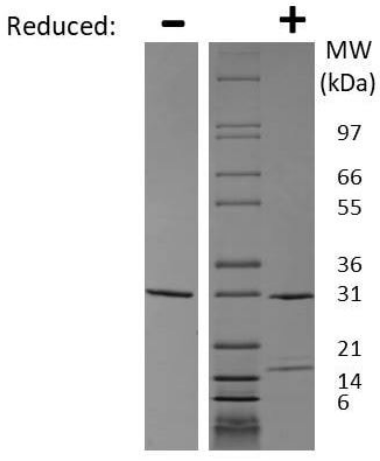
Sequence similarities

Belongs to the TGF-beta family. GDNF subfamily.

Cellular localization

Secreted.

Images



SDS-PAGE - Recombinant mouse GDNF protein (ab187211)

SDS PAGE analysis of ab187211 under non-reducing (-) and reducing (+) conditions. Stained with Coomassie Blue.

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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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