abcam

Product datasheet

Recombinant Human NPR-B protein ab201371

1 Image

Description

Product name	Recombinant Human NPR-B protein
Purity	> 80 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	NM_003995
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	86 kDa including tags
Amino acids	479 to 1047
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab201371** 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
Form	Liquid

Preparation and Storage

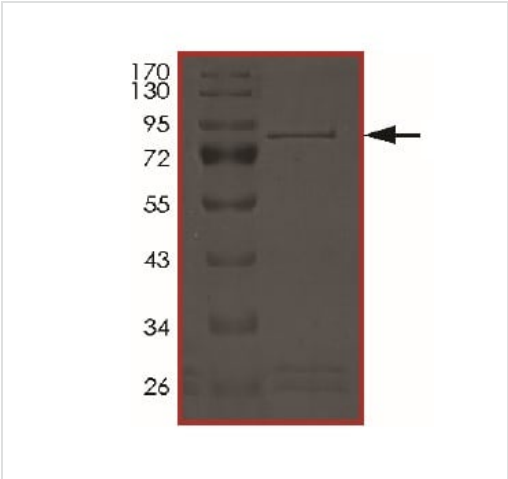
Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF, 25% Glycerol (glycerin, glycerine)

General Info

Function	Receptor for the C-type natriuretic peptide NPPC/CNP hormone. Has guanylate cyclase activity

	upon binding of its ligand. May play a role in the regulation of skeletal growth.
Involvement in disease	Defects in NPR2 are the cause of acromesomelic dysplasia Maroteaux type (AMDM) [MIM:602875]. Acromesomelic chondrodysplasias are rare hereditary skeletal disorders characterized by short stature, very short limbs, and hand/foot malformations. The severity of limb abnormalities increases from proximal to distal with profoundly affected hands and feet showing brachydactyly and/or rudimentary fingers (knob-like fingers). AMDM is an autosomal recessive form characterized by axial skeletal involvement with wedging of vertebral bodies. In AMDM all skeletal elements are present but show abnormal rates of linear growth.
Sequence similarities	Belongs to the adenylyl cyclase class-4/guanylyl cyclase family. Contains 1 guanylate cyclase domain. Contains 1 protein kinase domain.
Post-translational modifications	Phosphorylation of the protein kinase-like domain is required for full activation by CNP.
Cellular localization	Membrane.

Images



SDS-PAGE - Recombinant Human NPR-B protein (ab201371)

SDS-PAGE analysis of ab201371

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