

Product datasheet

Recombinant human PDE6C protein (Active) ab271682

2 Images

Description

Product name	Recombinant human PDE6C protein (Active)
Biological activity	Specific Activity: $\geq 3,000$ pmol/min/ μ g. Unit Definition: One unit is defined as the amount of enzyme that will convert 1 pmole of 3', 5'-cGMP to 5'-GMP per minute at 37°C. Assay Conditions: 10 mM Tris-HCl, pH 7.4, 10 mM MgCl ₂ , 0.1 mg/ml BSA, 0.05% Tween-20, 200 μ M cGMP, 2.5 kU 5'-nucleotidase, and serial dilutions of PDE6C at 37°C for 60 min. Quantified by 5'- nucleotidase cleaving the 5' -GMP product and releasing the phosphate group which is detected by Malachite Green Reagent.
Purity	≥ 5 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P51160
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	125 kDa including tags
Amino acids	1 to 855
Tags	GST tag N-Terminus
Additional sequence information	Mature chain.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab271682** 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	Liquid

Preparation and Storage

Stability and Storage

Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 20% Glycerol (glycerin, glycerine), 0.06% Glutathione

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

General Info

Involvement in disease

Defects in PDE6C are the cause of cone dystrophy type 4 (COD4) [MIM:613093]. An early-onset cone dystrophy. Cone dystrophies are retinal dystrophies characterized by progressive degeneration of the cone photoreceptors with preservation of rod function, as indicated by electroretinogram. However, some rod involvement may be present in some cone dystrophies, particularly at late stage. Affected individuals suffer from photophobia, loss of visual acuity, color vision and central visual field. Another sign is the absence of macular lesions for many years. Cone dystrophies are distinguished from the cone-rod dystrophies in which some loss of peripheral vision also occurs.

Sequence similarities

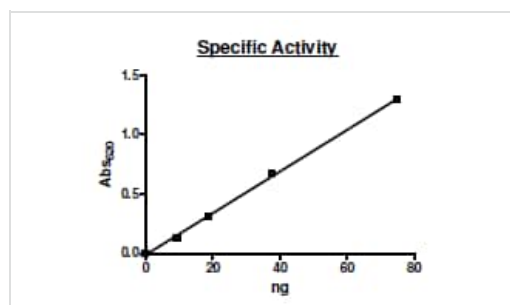
Belongs to the cyclic nucleotide phosphodiesterase family.

Contains 2 GAF domains.

Cellular localization

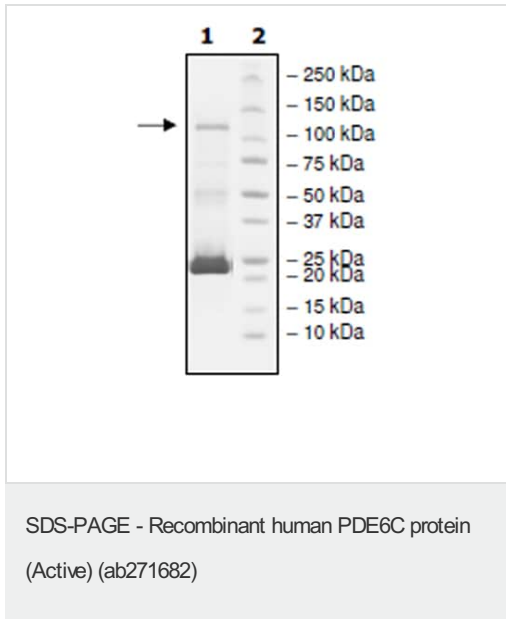
Cell membrane.

Images



Specific activity of ab271682 was $\geq 3,000$ pmol/min/ μ g.

Functional Studies - Recombinant human PDE6C protein (Active) (ab271682)



SDS-PAGE analysis of 2 µg ab271682.

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

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