

Datasheet for ABIN7317746 **GRK5 Protein (His tag)**



Overview

Quantity:	50 µg
Target:	GRK5
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRK5 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GRK5/GPRK5 Protein (His Tag)
Sequence:	Met 1-Ser 590
Characteristics:	A DNA sequence encoding the human GRK5 (NP_005299.1) (Met 1-Ser 590) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.

Target Details

Target:	GRK5
Alternative Name:	GRK5/GPRK5 (GRK5 Products)
Background:	Background: G protein-coupled receptor kinase 5, also known as G protein-coupled receptor kinase GRK5 and GRK5, is a member of the protein kinase superfamily, AGC Ser/Thr protein
	kinase family and GPRK subfamily. GRKs specifically phosphorylate agonist-occupied G

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/2 | Product datasheet for ABIN7317746 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

	protein-coupled receptors at the inner surface of the plasma membrane (PM), leading to
	receptor desensitization. GRKs utilize a variety of mechanisms to bind tightly, and sometimes
	reversibly, to cellular membranes. GRKs play an important role in mediating agonist-specific
	desensitization of numerous G protein-coupled receptors. GRK5 contains one AGC-kinase C-
	terminal domain, one protein kinase domain and one RGS domain. GRK5 specifically
	phosphorylates the activated forms of G protein-coupled receptors. Phospholipid-stimulated
	autophosphorylation may represent a novel mechanism for membrane association and
	regulation of GRK5 activity. GRK5 deficiency significantly exaggerates microgliosis and
	astrogliosis in the presence of an inflammatory initiator, such as the excess fibrillar Abeta and
	the subsequent active inflammatory reactions. GRK5 deficiency has been linked to early
	Alzheimer's disease in humans and mouse models of the disease.
	Synonym: GPRK5
Molecular Weight:	69 kDa
NCBI Accession:	NP_005299
Pathways:	Myometrial Relaxation and Contraction, Regulation of G-Protein Coupled Receptor Protein
	Signaling

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 1 mM DTT, 0.5 mM EDTA, 10 % glycerol, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.