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Datasheet for ABIN7317745

14-3-3 theta Protein (YWHAQ) (GST tag)

Overview

Quantity:	100 µg
Target:	14-3-3 theta (YWHAQ)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This 14-3-3 theta protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human 14-3-3 tau/14-3-3 theta/YWHAQ Protein (GST Tag)
Sequence:	Met 1-Asn 245
Characteristics:	A DNA sequence encoding the human YWHAQ (P27348) (Met 1-Asn 245) was fused with the GST tag at the N-terminus.
Purity:	> 88 % as determined by reducing SDS-PAGE.

Target Details

Target:	14-3-3 theta (YWHAQ)
Alternative Name:	14-3-3 tau/14-3-3 theta/YWHAQ (YWHAQ 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 protein-coupled receptors at the inner surface of the plasma membrane (PM), leading to

Target Details

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: 1C5;41701;HS1

Molecular Weight:	54.6 kDa
UniProt:	P27348
Pathways:	Apoptosis , Myometrial Relaxation and Contraction

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 0.15m NaCl, 20 mM GSH, pH 7.5
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.