

Datasheet for ABIN7538302 Metabotropic Glutamate Receptor 3 Protein



Overview

50 µg
Metabotropic Glutamate Receptor 3 (GRM3)
Human
Mammalian Cells
Synthetic Nanodisc

Product Details

Purpose:	Human GRM3 full length protein-synthetic nanodisc
Characteristics:	Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc
	can be prepared directly from the cells. The polymers used during this process have a dual
	function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to
	form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can
	then be purified.

Target Details

Target:	Metabotropic Glutamate Receptor 3 (GRM3)
Alternative Name:	GRM3 (GRM3 Products)
Background:	L-glutamate is the major excitatory neurotransmitter in the central nervous system and
	activates both ionotropic and metabotropic glutamate receptors. Glutamatergic
	neurotransmission is involved in most aspects of normal brain function and can be perturbed in
	many neuropathologic conditions. The metabotropic glutamate receptors are a family of G
	protein-coupled receptors, that have been divided into 3 groups on the basis of sequence

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Target Details

	homology, putative signal transduction mechanisms, and pharmacologic properties. Group I
	includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C.
	Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8.
	Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their
	agonist selectivities. [provided by RefSeq, Jul 2008]
Molecular Weight:	The human full length GRM3 protein has a MW of 98.9kDa
UniProt:	Q14832
Pathways:	cAMP Metabolic Process, Synaptic Membrane

Application Details

Comment:	 Advantages of Synthetic Nanodiscs: Highly purified membrane proteins High solubility in aqueous solutions High stability Proteins are in a native membrane environment and remain biologically active No detergent and can be used for cell-based assays No MSP backbone proteins
	Limitations of Synthetic Nanodiscs:
	Intolerant to acids and high concentrations of divalent metal ions
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months