

# Product Datasheet

## g-linked GTP agarose resin 505-0002-2ml

Unit Size: 2 ml

Store at 4C. Do not freeze.

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**505-0002-2ml**

g-linked GTP agarose resin

**Product Information**

<b>Unit Size</b>	2 ml
<b>Concentration</b>	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Buffer</b>	0.12% Tris (pH 8.0), 1.74% Sodium chloride, 0.03% EDTA, 5% Guanosine 5'-triphosphate lithium salt

**Product Description**

<b>Description</b>	Affinity resins have been widely used for the purification of enzymes and other proteins that bind nucleotides and related molecules. GTP-agarose resin comprises GTP attached to agarose beads via its gamma-phosphate. A long hydrophilic spacer (14-atom) is used to minimise unwanted hydrophobic interactions and to facilitate unhindered interactions with biomolecules. The ligand is coupled through the gamma-phosphate group which means that the resin is resistant to phosphatases found in many crude tissue extracts.  The Control Resin is just the agarose with no GTP bound.
<b>Notes</b>	This product is manufactured by Abcam and distributed by Novus Biologicals. It was previously called High Capacity GTP Agarose - 2ml (505-0002); it is the same as the 2 mL size of this product.  This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact <a href="mailto:technical@novusbio.com">technical@novusbio.com</a> with questions.

## Publications

Li Z, Ding B, Zhou X, Wang GL. The Rice Dynamin-Related Protein OsDRP1E Negatively Regulates Programmed Cell Death by Controlling the Release of Cytochrome c from Mitochondria. *PLoS Pathog.* 2017-01-12 [PMID: 28081268]

Jimenez JI, Xulvi-Brunet R, Campbell GW et al. Comprehensive experimental fitness landscape and evolutionary network for small RNA. *PNAS* 2013-01-01 [PMID: 23980164]

Salter NW, Ande SR, Nguyen HK et al. Functional Characterization of Naturally Occurring Transglutaminase 2 Mutants Implicated in Early-Onset Type 2 Diabetes. *J Mol Endocrinol* 2012-01-01 [PMID: 22394545]

Ito G, Iwatsubo T. Re-examination of the dimerization state of leucine-rich repeat kinase 2: predominance of the monomeric form. *Biochem J.* 2011-01-01 [PMID: 22047502]

Pendin D, Tosetto J, Moss TJ et al. GTP-dependent packing of a three-helix bundle is required for atlastin-mediated fusion. *PNAS* 2011-01-01 [PMID: 21930898]

Marino SF. High-level production and characterization of a G-protein coupled receptor signaling complex. *FEBS J.* 2009-01-01 [PMID: 19645726]

Green JC, Kahramanoglou C, Rahman A et al. Recruitment of the Earliest Component of the Bacterial Flagellum to the Old Cell Division Pole by a Membrane-Associated Signal Recognition Particle Family GTP-Binding Protein. *J Mol Biol* 2009-01-01 [PMID: 19497327]

Garcia-Regalado A, Guzman-Hernandez ML, Ramirez-Rangel I et al. G Protein-Coupled Receptor-Promoted Trafficking of G beta-1-gamma-2 Leads to AKT Activation at Endosomes via a Mechanism Mediated by G?1?2-Rab11a Interaction. *Mol Biol Cell.* 2008-01-01 [PMID: 18701709]

Rao MR, Kumari G, Balasundaram D et al. A Novel Lysine-rich Domain and GTP Binding Motifs Regulate the Nucleolar Retention of Human Guanine Nucleotide Binding Protein, GNL3L. *J Mol Biol* 2006-01-01 [PMID: 17034816]

Yang Y, Rao R, Shen J et al. Role of Acetylation and Extracellular Location of Heat Shock Protein 90alpha in Tumor Cell Invasion. *Cancer Res* 2008-01-01 [PMID: 18559531]

Baloh RH, Schmidt RE, Pestronk A, Milbrandt J. Altered axonal mitochondrial transport in the pathogenesis of Charcot-Marie-Tooth disease from mitofusin 2 mutations. *J Neurosci* 27(2):422-30. 2007-01-10 [PMID: 17215403]



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## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

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