

Product Datasheet

g-linked ATP agarose resin

510-0002

Unit Size: 2 ml

Store at 4C. Do not freeze.

www.novusbio.com



technical@novusbio.com

Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/510-0002

Updated 10/23/2024 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/510-0002



510-0002

g-linked ATP agarose resin

Product Information

Unit Size	2 ml
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at 4C. Do not freeze.
Buffer	

Product Description

Description	Affinity resins have been widely used for the purification of enzymes that bind nucleotides and related molecules. Resins in which ATP is linked via the gamma-phosphate have been valuable in identifying proteins in the purine-binding proteome, which includes kinases, heat shock proteins and other ATP-binding proteins. ATP Agarose resin comprises ATP attached to agarose beads via its gamma-phosphate. Two forms of the resin are available with low and high ligand substitution. A long hydrophilic spacer (14-atom) is used to minimise unwanted hydrophobic interactions and to facilitate unhindered interactions with biomolecules. The Control Resin is just the agarose with no ATP bound.
Specificity/Sensitivity	Affinity resins have been widely used for the purification of enzymes that bind nucleotides and related molecules. Resins in which ATP is linked via the gamma-phosphate have been valuable in identifying proteins in the purine-binding proteome, which includes kinases, heat shock proteins and other ATP-binding proteins. ATP Agarose resin comprises ATP attached to agarose beads via its gamma-phosphate. Two forms of the resin are available with low and high ligand substitution. A long hydrophilic spacer (14-atom) is used to minimise unwanted hydrophobic interactions and to facilitate unhindered interactions with biomolecules. The Control Resin is just the agarose with no ATP bound.
Notes	This product is manufactured by Abcam and distributed by Novus Biologicals. 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 technical@novusbio.com with questions.

Product Application Details

Application Notes	High (8-12 umol/ml) - 2ml
--------------------------	---------------------------



Publications

Mark R Woodford, Rebecca A Sager, Elijah Marris, Diana M Dunn, Adam R Blanden, Ryan L Murphy, Nicholas Rensing, Oleg Shapiro, Barry Panaretou, Chrisostomos Prodromou, Stewart N Loh, David H Gutmann, Dimitra Bourboulia, Gennady Bratslavsky, Michael Wong, Mehdi Mollapour Tumor suppressor Tsc1 is a new Hsp90 co-chaperone that facilitates folding of kinase and non-kinase clients The EMBO Journal 2017-11-10 [PMID: 29127155]

Baker-Williams AJ, Hashmi F, Budzyński MA et al. Co-chaperones TIMP2 and AHA1 Competitively Regulate Extracellular HSP90:Client MMP2 Activity and Matrix Proteolysis Cell Reports 2019-08-13 [PMID: 31412254] (ELISA)

Backe SJ, Sager RA, Heritz JA et al. Activation of autophagy depends on Atg1/Ulk1-mediated phosphorylation and inhibition of the Hsp90 chaperone machinery Cell reports 2023-07-25 [PMID: 37453059]

Sager RA, Woodford MR, Backe SJ et al. Post-translational Regulation of FNIP1 Creates a Rheostat for the Molecular Chaperone Hsp90 Cell Rep 2019-01-29 [PMID: 30699359]

Harthill JE, Meek SE, Morrice N, Peggie MW, Borch J, Wong BH, Mackintosh C. Phosphorylation and 14-3-3 binding of Arabidopsis trehalose-phosphate synthase 5 in response to 2-deoxyglucose. The Plant Journal 47 (2), 211-223. 2006-07-01 [PMID: 16771775]

Rao R, Fiskus W, Yang Y et al. HDAC6 inhibition enhances 17-AAG-mediated abrogation of hsp90 chaperone function in human leukemia cells. Blood. 2008-09-01 [PMID: 18591380]

Duncan JA, Bergstralh DT, Wang Y, Willingham SB, Ye Z, Zimmermann AG, Ting JP. ryopyrin/NALP3 binds ATP/dATP, is an ATPase, and requires ATP binding to mediate inflammatory signaling. Proc Natl Acad Sci U S A. 104(19):8041-6. 2007-05-08 [PMID: 17483456]

Jaleel M, Saha S, Shenoy AR, Visweswariah SS. The kinase homology domain of receptor guanylyl cyclase C: ATP binding and identification of an adenine nucleotide sensitive site. Biochemistry;45(6):1888-98. 2006-02-14 [PMID: 16460035]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/510-0002

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

