# **Product Datasheet**

# Recombinant Human Guanine deaminase Protein NBP2-49692-20ug

Unit Size: 20 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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# NBP2-49692-20ug

**Recommended Dilutions** 

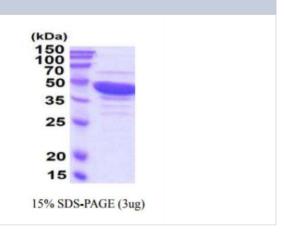
Product Information	Recombinant Human Guanine deaminase Protein	
Concentration 1 mg/ml Storage Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.  Preservative No Preservative Purity >90%, by SDS-PAGE Buffer PBS (pH 7.4), 10% glycerol, 1 mM DTT  Target Molecular Weight 51 kDa  Product Description  Description An un-tagged recombinant protein corresponding to the amino acids 1-454 of Human Guanine deaminase  Source: E.coli Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQYSF AGSSIDLPLL EWLTKYTFPA EHRFQNIDFA EEVYTRVVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GGRAFVGKVV MDLNDTFPEY KETTEESIKE TERFVSEMICQ KNYSYKKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELNV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAWNS NILLINKVNE KSLTLKEVFR LATLGGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID 9615  Gene Symbol GDA  Species Human  Details of Functionality Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Product Information	
Storage Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.  Preservative No Preservative Purity >90%, by SDS-PAGE Buffer PBS (pH 7.4), 10% glycerol, 1 mM DTT Target Molecular Weight 51 kDa  Product Description  An un-tagged recombinant protein corresponding to the amino acids 1-454 of Human Guanine deaminase  Source: E.coli Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQVSF AGSSIDLPLL EWLTKYTFPA EHRFONIDFA EEVYTRVVRR TLKNGTTTAC YFATIHITDSS LLLADITDKF GQRAFVGKVC MDLNDTFPEY KETTEESIKE TERFVSEMLQ KINSRVKPIV TRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELINV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS NILLINKVNE KSLTLKEVFR LATLGGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID Gene Symbol GDA Species Human  Details of Functionality Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Unit Size	20 ug
cycles.  Preservative No Preservative Purity >90%, by SDS-PAGE Buffer PBS (pH 7.4), 10% glycerol, 1 mM DTT  Target Molecular Weight 51 kDa  Product Description  Description  An un-tagged recombinant protein corresponding to the amino acids 1-454 of Human Guanine deaminase  Source: E.coli  Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQVSF AGSSIDLPLL EWLTKYTFPA EHRFCANIDFA EEVYTRVVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GORAFVGKVC MDLNDTPEY KETTEESIKE TERFVSEMLQ KNYSRVKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVA WKNLYPSYKN YTSVVDKNIL LTNKTVMAHG CYLSAEELNV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS NILLINKVNE KSLTLKEVFR LATLGGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID  9615  Gene Symbol GDA  Species Human  Details of Functionality Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Concentration	1 mg/ml
Purity >90%, by SDS-PAGE  Buffer PBS (pH 7.4), 10% glycerol, 1 mM DTT  Target Molecular Weight 51 kDa  Product Description  Description An un-tagged recombinant protein corresponding to the amino acids 1-454 of Human Guanine deaminase  Source: E.coli  Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQYSF AGSSIDLPLL EWLTKYTFPA EHRFQNIDFA EEVYTRVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GQRAFVGKVC MDLNDTFPEY KETTEESIKE TERFVSEMLQ KNYSRVKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENSRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELNV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS NILLINKVNE KSLTLKEVFR LATLGGSQAL GLDGEIGNFE VGKEFDAILL INFKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID 9615  Gene Symbol GDA  Species Human  Details of Functionality Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Storage	·
Buffer PBS (pH 7.4), 10% glycerol, 1 mM DTT  Target Molecular Weight 51 kDa  Product Description  Description An un-tagged recombinant protein corresponding to the amino acids 1-454 of Human Guanine deaminase  Source: E.coli  Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQYSF AGSSIDLPLL EWLTKYTFPA EHRFQNIDFA EEVYTRVVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GAFVGKVC MDLNDTFPEY KETTEESIKE TERFVSEMLQ KNYSRVKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELNV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS KILTIKKVVRE KSLTLKEVFR LATLGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID 9615  Gene Symbol GDA  Species Human  Details of Functionality Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Preservative	No Preservative
Target Molecular Weight  Product Description  An un-tagged recombinant protein corresponding to the amino acids 1-454 of Human Guanine deaminase  Source: E.coli  Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQYSF AGSSIDLPLL EWLTKYTFPA EHRFQNIDFA EEVYTRVVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GQRAFVGKVC MDLNDTFPEY KETTEESIKE TERFVSEMLQ KNYSRVKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELINV FHERGASIAH CPNSNLSLSS GELNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS NILLINKVNE KSLTLKEVFR LATTLGGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID  9615  Gene Symbol  GDA  Species  Human  Details of Functionality  Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Purity	>90%, by SDS-PAGE
Product Description  An un-tagged recombinant protein corresponding to the amino acids 1-454 of Human Guanine deaminase  Source: E.coli  Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQYSF AGSSIDLPLL EWLTKYTFPA EHRFQNIDFA EEVYTRVVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GQRAFVGKVC MDLNDTFPEY KETTEESIKE TERFVSEMLQ KNYSRVKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELNV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS NILLINKVNE KSLTLKEVFR LATLGGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID  9615  Gene Symbol  GDA  Species  Human  Details of Functionality  Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Buffer	PBS (pH 7.4), 10% glycerol, 1 mM DTT
An un-tagged recombinant protein corresponding to the amino acids 1-454 of Human Guanine deaminase  Source: E.coli  Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQYSF AGSSIDLPLL EWLTKYTFPA EHRFQNIDFA EEVYTRVVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GQRAPVGKVC MDLNDTFPEY KETTEESIKE TERFVSEMLQ KNYSRVKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELNV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS NILLINKVNE KSLTLKEVFR LATLGGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID  9615  Gene Symbol  GDA  Species  Human  Details of Functionality  Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Target Molecular Weight	51 kDa
Human Guanine deaminase  Source: E.coli  Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQYSF AGSSIDLPLL EWLTKYTFPA EHRFQNIDFA EEVYTRVVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GQRAFVGKVC MDLNDTFPEY KETTEESIKE TERFVSSMLQ KNYSRVKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELNV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS NILLINKVNE KSLTLKEVFR LATLGGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY LGDDRNIEEV YVGGKQVVPF SSSV  Gene ID  9615 Gene Symbol GDA Species Human Details of Functionality Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Product Description	
Gene Symbol  Species  Human  Details of Functionality  Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Description	Source: E.coli  Amino Acid Sequence: MCAAQMPPLA HIFRGTFVHS TWTCPMEVLR DHLLGVSDSG KIVFLEEASQ QEKLAKEWCF KPCEIRELSH HEFFMPGLVD THIHASQYSF AGSSIDLPLL EWLTKYTFPA EHRFQNIDFA EEVYTRVVRR TLKNGTTTAC YFATIHTDSS LLLADITDKF GQRAFVGKVC MDLNDTFPEY KETTEESIKE TERFVSEMLQ KNYSRVKPIV TPRFSLSCSE TLMGELGNIA KTRDLHIQSH ISENRDEVEA VKNLYPSYKN YTSVYDKNNL LTNKTVMAHG CYLSAEELNV FHERGASIAH CPNSNLSLSS GFLNVLEVLK HEVKIGLGTD VAGGYSYSML DAIRRAVMVS NILLINKVNE KSLTLKEVFR LATLGGSQAL GLDGEIGNFE VGKEFDAILI NPKASDSPID LFYGDFFGDI SEAVIQKFLY
Species  Human  Details of Functionality  Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Gene ID	9615
Details of Functionality  Specific activity is > 2,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Gene Symbol	GDA
that convert guanine to xanthine per minute at pH 8.0 at 37C.  Product Application Details	Species	Human
• •	Details of Functionality	
Annlications SDS-Page Enzyme Activity	Product Application Details	
Applications ODO-1 age, Elizyllic Activity	Applications	SDS-Page, Enzyme Activity



SDS-Page, Enzyme Activity

## **Images**

Recombinant Human Guanine deaminase Protein [NBP2-49692]



#### **Publications**

Ramirez-Celis A, Becker M, Nuño M, et al. Risk assessment analysis for maternal autoantibody-related autism (MAR-ASD): a subtype of autism Molecular psychiatry 2021-01-22 [PMID: 33483694]



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NBP2-60220-5ug Recombinant Mouse Guanine deaminase His Protein

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NBP1-87454 Guanine deaminase Antibody

NB100-1793 Pancreatic Polypeptide/PP Antibody

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