

## Product Data Sheet

Product Name: GDA Human, Active

Cat. No.: GP21670

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Guanine Deaminase; Guanine Aminohydrolase; GuanineAminase; P51-Nedasin; EC 3.5.4.3; GUANASE; GAH; Cytoplasmic PSD95 Interactor; KIAA1258; NEDASIN; CYPIN.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSMCAAQMP PLAHIFRGTF VHSTWTCPME  VLRDHLGVS DSGKIVFLEE ASQQEKLAK WCFKPCEIRE LSHHEFFMPG  LVDTHIHASQ YSFAGSSIDL PLEWLTKYT FPAEHRFQNI DFAEEVYTRV  VRRTLKNGTT TACYFATIHT DSSLLADIT DKFGQRAFGV KVCMDLNDTF  PEYKETTEES IKETERFVSE MLQKNYSRVK PIVTPRFSL CSETLMGELG  NIAKTRDLHI QSHISENRDE VEAVKNLYPS YKNYTSVYDK NLLTNKTVM  AHGCYLSAEE LNVFHERGAS IAHCPSNLS LSSGFLNVLE VLKHEVKIGL  GTDVAGGYSY SMLDAIRRAV MVSNILLINK VNEKSLTLKE VFRLATLGGS  QALGLDGEIG NFEVGKEFDA ILINPKASDS PIDLFYGDFF GDISEAVIQK  FLYLGDDRNI EEVYVGGKQV VPFSSSV.</p>		
Formulation	GDA protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.15M NaCl, 10% glycerol, 1mM DTT.		

### Introduction

GDA is a member of the ATZ/TRZ family and is in charge for the hydrolytic deamination of guanine. GDA takes part in microtubule assembly. Multiple transcript variants encoding different isoforms have been found for GDA.

### Biological Activity

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.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

GDA Human Recombinant produced in E. coli is a single polypeptide chain containing 477 amino acids (1-454) and having a molecular mass of 53kDa. GDA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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