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**Product Data Sheet**


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Product Name: GDA Mouse  
 Cat. No.: GP21671  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Guanine deaminase; Guanase; Guanine aminase; Guanine aminohydrolase; GAH.

Amino Acid Sequence  
 MGSSHHHHH SSGLVPRGSH MGSMCAARTP PLALVFRGTF VHSTWTCPME  
 VLRDHLLGVS DSGKIVFLEE SSQQEKLAK WCFKPCEIRE LSHHEFFMPG  
 LVDTHIHAPQ YAFAGSNVDL PLEWLNKYT FPTEQRFRST DVAEEVYTRV  
 VRRTLKNGTT TACYFGTIHT DSSLILAEIT DKFGQRAFGV KVCMDLNDTV  
 PEYKETTES VKETERFVSE MLQKNYPRVK PIVTPRFTLS CTETLMSELG  
 NIAKTHDLYI QSHISENREE IEAVKSLYPS YKNYTDVYDK NLLTNKTVM  
 AHGCYLSEEE LNIFSERGAS IAHCPSNLS LSSGLLNVLE VLKHKVKIGL  
 GTDVAGGYSY SMLDAIRRAV MVS NVLLINK VNEKNLTLKE VFRLATLGGS  
 QALGLDSEIG NFEVGKEFDA LLINPRASDS PIDLFYGDFV GDISEAVIQK  
 FLYLGDDRNI EEVYVGGKQV VPFSSSV.

Formulation GDA protein solution (0.5mg/ml) containing 20mM Tris-HCl(pH8.0), 0.15M NaCl, 1mM DTT and 10% glycerol .

**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 > 4,000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37°C.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

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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 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 477 amino acids (1-454 a.a) and having a molecular mass of 53.4kDa. GDA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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