

## 32-6759: GDA Mouse

**Application :** Functional Assay

**Alternative Name :** Guanine deaminase, Guanase, Guanine aminase, Guanine aminohydrolase, GAH.

### Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

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.

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.

### Product Info

**Amount :** 1 µg / 5 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

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

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSMCAARTP PLALVFRGTF VHSTWTC PME VLRDHLLGVS  
DSGKIVFLEE SSQKEKLAK WCFKPCEIRE LSHHEFFMPG LVDTHIHAPQ YAFAGSNVDL PLEWLNKYT  
FPTEQRFRST DVAEEVYTRV VRRTLKNGTT TACYFGTIHT DSSLILAEIT DKFGQRAFGV KVCMDLNDTV  
PEYKETTEES VKETERFVSE MLQKNYPRVK PIVTPRFTLS CTETLMSELG NIAKTHDLYI QSHISENREE  
IEAVKSLYPS YKNYTDVYDK NNLLTNKTVM AHGCYLSEEE LNIFSERGAS IAHC PNSNLS LSSGLLNVLE  
VLKHKVKIGL GTDVAGGYSY SMLDAIRRAV MVS NVLLINK VNEKNLTLKE VFRLATLGGS QALGLDSEIG  
NFEVGKEFDA LLINPRASDS PIDLFYGDFV GDISEAVIQK FLYLGDDRNI EEVYVGGKQV VPFSSSV.

### Application Note

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.