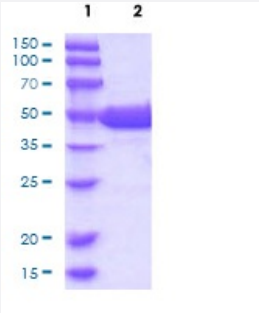
Bioactive Full-Length

# GDA (Human) Recombinant Protein

Catalog # P7987 Size 100 ug

## Applications




## Specification

| | |
|---|---|
| **Product Description** | Human GDA (Q9Y2T3, 1 a.a. - 454 a.a.) full length recombinant protein with His tag expressed in *Escherichia coli*. |
| **Sequence** | MCAAQMPPLAHIFRGTFVHSTWTCPMEVLRDHLLGVSDSGKIVFLEEASQQEKLAKEWCFKPCE IRELSHHEFFMPGLVDTHIHASQYSFAGSSIDLPLLEWLTKYTFPAEHRFQNIDFAEEVYTRVVRRT LKNGTTTACYFATIHTDSSLLLADITDKFGQRAFVGKVCMDLNDTFPEYKETTEESIKETERFVSEM LQKNYSRVKPIVTPRFSLSCSETLMGELGNIAKTRDLHIQSHISENRDEVEAVKNLYPSYKNYTSVY DKNNLLTNKTVMAHGCYLSAEELNVFHERGASIAHCPNSNLSLSSGFLNVLEVLKHEVKIGLGTDV AGGYSYSMLDAIRRAVMVSNILLINKVNEKSLTLKEVFRLATLGGSQALGLDGEIGNFEVGKEFDAI LINPKASDSPIDLFYGDFFGDISEAVIQKFLYLGDDRNIEEVYVGGKQVVPFSSSV |
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | 53 |
| **Form** | Liquid |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purity** | > 90% by SDS-PAGE |
| **Activity** | Specific activity is > 2000 pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per miunte at pH 8.0 at 37°C. |

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|---|---|
| **Quality Control Testing** | 3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain. |
| **Storage Buffer** | In 20mM Tris-HCl pH 8.0 (10% glycerol, 0.15 M NaCl, 1 mM DTT) |
| **Storage Instruction** | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — GDA

| | |
|---|---|
| **Entrez GeneID** | 9615 |
| **Protein Accession#** | Q9Y2T3 |
| **Gene Name** | GDA |
| **Gene Alias** | CYPIN, GUANASE, KIAA1258, MGC9982, NEDASIN |
| **Gene Description** | guanine deaminase |
| **Omim ID** | 139260 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is an enzyme that catalyzes the hydrolytic deamination of guanine, producing xanthine and ammonia. It is also known as a cytosolic regulator of PSD-95 postsynaptic targeting. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000021463 |

## Pathway

- Metabolic pathways
- Purine metabolism

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## Disease

- Tobacco Use Disorder

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