

## Guanine Deaminase Human Recombinant, Active

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| <b>Item Number</b>                       | rAP-0963  |
| <b>Synonyms</b>                          | Guanine Deaminase, Guanine Aminohydrolase, Guanine Aminase, P51-Nedasin, EC 3.5.4.3, GUANASE, GAH, Cytoplasmic PSD95 Interactor, KIAA1258, NEDASIN, CYPIN.  |
| <b>Description</b>                       | 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.  |
| <b>Uniprot Accession Number</b>          | Q9Y2T3  |
| <b>Amino Acid Sequence</b>               | MGSSHHHHH SSGLVPRGSH MGSMCAAQMP PLAHIFRGTF VHSTWTCPME VLRDHLGVS DSG-KIVFLEE ASQQEKLAKL WCFKPCEIRE LSHHEFFMPG LVDTHIHASQ YSFAGSSIDL PLLEWLTKYT FPAEHRFQNI DFAEEVYTRV VRRTLKNGTT TACYFATIHT DSSLLLADIT DKFGQRAFGV KVCMDLNDTF PEYKETTEES IKETERFVSE MLQKNYSRVK PIVTPRFSL S CSETLMGELG NIAKTRDLHI QSHISENRDE VEAVKNLYPS YKNYTSVYDK NLLTNKTVM AHGCYLSAEE LNVFHERGAS IAHCPNSNLS |
| <b>Source</b>                            | Escherichia Coli.   |
| <b>Physical Appearance and Stability</b> | Sterile Filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.&nbsp; For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).&nbsp; Avoid multiple freeze-thaw cycles.   |
| <b>Formulation and Purity</b>            | GDA protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.15M NaCl, 10% glycerol, 1mM DTT. Greater than 90.0% as determined by SDS-PAGE.   |
| <b>Application</b>                       |   |
| <b>Solubility</b>                        |   |
| <b>Biological Activity</b>               | 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.  |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.   |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**