

Active Recombinant Human GDA protein, His-tagged (Bioactivity Validated)

Cat. No. GDA-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GDA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	GDA is an enzyme responsible for the hydrolytic deamination of guanine. Studies in rat ortholog suggest this gene plays a role in microtubule assembly. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Bio-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 37centigrade.
Molecular Mass	53kDa (477aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMCAAQMP PLAHIFRGTF VHSTWTC PME VLRDHLLGVS DSGKIVFLEE ASQKEKLAK WCFKPCEIRELSHHEFFMPG LVDTHIHASQ YSFAGSSIDL PLLEWLTKYT FPAEHRFQNI DFAEEVYTRV VRRTLKNGTT TACYFATIHT DSSLLLADIT DKFGQRAFGV KVCMDLNDTF PEYKETTES IKETERFVSE MLQKNYSRVK PIVTPRFSL S CSETLMGELG

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NIAKTRDLHI QSHISENRDEVEAVKNLYPS YKNYTSVYDK NNLLTNKTVM
 AHGCYLSAEE LNVFHERGAS IAHCPSNLS LSSGFLNVLE VLKHEVKIGL
 GTDVAGGYSY
 SMLDAIRRAV MVSNILLINK VNEKSLTLKE VFRLATLGGS QALGLDGEIG
 NFEVGKEFDA ILINPKASDS PIDLFYGDFF GDISEAVIQKFLYLGDDRNI
 EEVYVGGKQV VPFSSSV

Purity > 90% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name GDA guanine deaminase [Homo sapiens]

Official Symbol GDA

Synonyms GDA; guanine deaminase; GAH; p51-nedasin; guanine aminase; CYPIN; GUANASE; NEDASIN

Gene ID 9615

mRNA Refseq NM_001242505

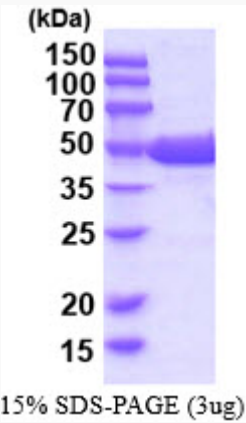
Protein Refseq NP_001229434

MIM 139260

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UniProt ID	Q9Y2T3
Chromosome Location	9q21.13
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine catabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem;
Function	guanine deaminase activity; guanine deaminase activity; hydrolase activity; metal ion binding; zinc ion binding;
 15% SDS-PAGE (3ug)	