

GDA, human recombinant

CATALOG #:	7807-100	100 µg
ALTERNATE NAMES:	Guanine deaminase, CYPIN, GUANASE, NEDASIN	
SOURCE:	E. Coli	
PURITY:	> 90% by SDS - PAGE	
MOL. WEIGHT:	53 kDa (477 aa, 1-454 aa + His Tag)	
FORM:	Liquid	
FORMULATION:	1 mg/ml solution 20 mM Tris-HCl buffer (pH 8.0), 10% glycerol and 1 mM DTT.	

STORAGE CONDITIONS:

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

DESCRIPTION:

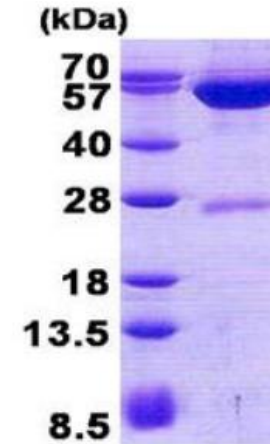
GDA is an enzyme responsible for the hydrolytic deamination of guanine. Studies in rat ortholog suggest this gene plays a role in microtubule assembly. Multiple transcript variants encoding different isoforms have been found for this gene. Recombinant human GDA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AMINO ACID SEQUENCE:

MGSSHHHHHH SGLVPRGSH MGSMCAAQMP PLAHIFRGTF VHSTWTC PME
VLRDHLLGVS DSGKIVFLEE ASQQEKLAK E WCFKPCEIRE LSHHEFFM PG LVDTHIHASQ
YSFAGSSIDL PLLEWLTKYT FPAEHRFQNI DFAEEVYTRV VRRTLKNGTT TACYFATIHT
DSSLLADIT DKFGQRA FVG KVCMDLNDTF PEYKETTEES IKETERFVSE MLQKNYSRVK
PIVTPRFSL S CSETLMGELG NIAKTRDLHI QSHISENRDE VEAVKNLYPS YKNYTSVYDK
NNLLTNKTV M AHGCYLSAEE LNVFHERGAS IAHC PNSNLS LSSGFLNVLE VLKHEVKIGL
GTDVAGGYSY SMLDAIRRAV MVSNILLINK VNEKSLTLKE VFRLATLGGS QALGLDGEIG
NFEVGKEFDA ILINPKASDS PIDLFYGDFF GDISEAVIQK FLYLGDDRNI EEVYVGGKQV
VPFSSSV

BIOLOGICAL ACTIVITY:

Specific activity is > 0.9 unit/ml, in which one unit will deaminate 1.0 µmole of guanine to xanthine per minute at pH 8.0 at 25°C.

**15% SDS-PAGE (3µg)**

Human Recombinant GDA

RELATED PRODUCTS:

- GPT1/ALT1, human recombinant (**Cat. No. 7805-100**)
- Alanine Aminotransferase (ALT or SGPT) Activity Assay Kit (**Cat. No. K752-100**)
- Alanine Colorimetric/Fluorometric Assay Kit (**Cat. No. K652-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.