Recombinant human Guanine deaminase/GDA protein

Catalog Number: ATGP3429

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-454aa

UniProt No.
Q9Y2T3

NCBI Accession No.
NP_004284

Alternative Names
Guanine deaminase isoform b, Guanase, Guanine aminase, Guanine aminohydrolase, GAH, p51-nedasin, CYPIN, Cytoplasmic PSD-95 interactor

PRODUCT SPECIFICATION

Molecular Weight
53 kDa (477aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Biological Activity
Specific activity is >2,000pmol/min/ug, and is defined as the amount of enzyme that convert guanine to xanthine per minute at pH 8.0 at 37C.

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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

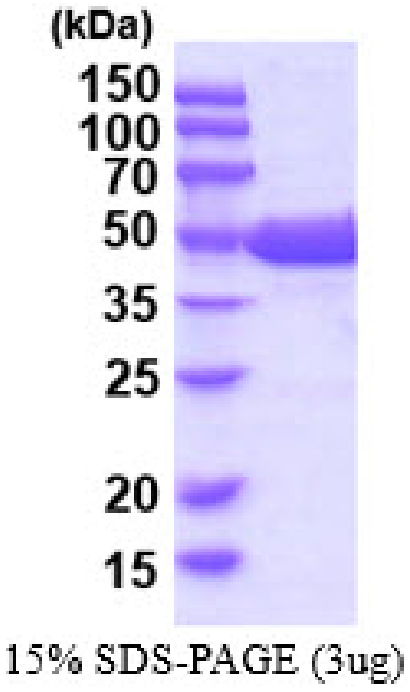
MGSSHHHHHH SSGLVPRGSH MGSMCAAQMP PLAHIFRGTF VHSTWTCPME VLRDHLLGVS DSGKIVFLEE ASQQEKLAKE WCFKPCEIRE LSHHEFFMPG LVDTHIHASQ YSFAGSSIDL PLLEWLTKYT FPAEHRFQNI DFAEEVYTRV VRRTLKNGTT TACYFATIHT DSSLLLADIT DKFGQRAFVG KVCMDLNDTF PEYKETTEES IKETERFVSE MLQKNYSRVK PIVTPRFSLS CSETLMGELG NIAKTRDLHI QSHISENRDE VEAVKNLYPS YKNYTSVYDK NNLLTNKTVM AHGCYLSAEE LNVFHERGAS IAHCPNSNLS LSSGFLNVLE VLKHEVKIGL GTDVAGGYSY SMLDAIRRAV MVSNILLINK VNEKSLTLKE VFRLATLGGS QALGLDGEIG NFEVGKEFDA ILINPKASDS PIDLFYGDFF GDISEAVIQK FLYLGDDRNI EEVYVGGKQV VPFSSSV

General References

Gang Yuan, James C. Bin, et al. (1999). J. Biol. Chem. 274(12):8175-80.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.