

32-6758: GDA Human, Active

Application : Functional Assay

Alternative Name : Guanine Deaminase, Guanine Aminohydrolase, Guanine Aminase, P51-Nedasin, EC 3.5.4.3, GUANASE, GAH, Cytoplasmic PSD95 Interactor, KIAA1258, NEDASIN, CYPIN.

Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

GDA is a member of the ATZ/TRZ family and is in charge for the hydrolytic deamination of guanine. GDA takes part in microtubule assembly. Multiple transcript variants encoding different isoforms have been found for GDA.

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.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : GDA protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.15M NaCl, 10% glycerol, 1mM DTT.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMCAAQMP PLAHIFRGTF VHSTWTC PME VLRDHLLGVS
DSGKIVFLEE ASQQEKLAKE WCFKPCEIRE LSHHEFFMPG LVDTHIHASQ YSFAGSSIDL PLEWLTKYT
FPAEHRFQNI DFAEEVYTRV VRRTLKNGTT TACYFATIHT DSSLLADIT DKFGQRAFGV KVCMDLNDTF
PEYKETTEES IKETERFVSE MLQKNYSRVK PIVTPRFSL CSETLMGELG NIAKTRDLHI QSHISENRDE
VEAVKNLYPS YKNYTSVYDK NLLTNKTVM AHGCYLSAEE LNVFERGAS IAHCPSNLS LSSGFLNVLE
VLKHEVKIGL GTDVAGGYSY SMLDAIRRAV MVSNILLINK VNEKSLTLKE VFRLATLGGS QALGLDGEIG
NFEVGKEFDA ILINPKASDS PIDLFYGDF GDISEAVIQK FLYLGDDRNI EEVYVGKQV VPFSSSV.

Application Note

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