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Recombinant mouse Guanine deaminase/GDA protein

Catalog Number: ATGP3666

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-454aa

UniProt No.

O9R111

NCBI Accession No.

NP 034396

Alternative Names

Guanine deaminase, AU015411, AW047581, GAH, Guanase, Guanine aminase, Guanine aminohydrolase

PRODUCT SPECIFICATION

Molecular Weight

53.4 kDa (477aa) Confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

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

Purity

> 95% by SDS-PAGE

Biological Activity

Specific activity is > 4,000pmol/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, also known as guanine deaminase, catalyzes the hydrolytic deamination of guanine, producing xanthine and ammonia. 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 mouse Gda, fused to His-tag at



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N-terminus, was expressed in E. coli and purified by conventional chromatography techniques.

Amino acid Sequence

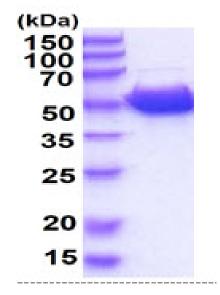
MGSSHHHHHH SSGLVPRGSH MGSMCAARTP PLALVFRGTF VHSTWTCPME VLRDHLLGVS DSGKIVFLEE SSQQEKLAKE WCFKPCEIRE LSHHEFFMPG LVDTHIHAPQ YAFAGSNVDL PLLEWLNKYT FPTEQRFRST DVAEEVYTRV VRRTLKNGTT TACYFGTIHT DSSLILAEIT DKFGQRAFVG KVCMDLNDTV PEYKETTEES VKETERFVSE MLQKNYPRVK PIVTPRFTLS CTETLMSELG NIAKTHDLYI QSHISENREE IEAVKSLYPS YKNYTDVYDK NNLLTNKTVM AHGCYLSEEE LNIFSERGAS IAHCPNSNLS LSSGLLNVLE VLKHKVKIGL GTDVAGGYSY SMLDAIRRAV MVSNVLLINK VNEKNLTLKE VFRLATLGGS OALGLDSEIG NFEVGKEFDA LLINPRASDS PIDLFYGDFV GDISEAVIOK FLYLGDDRNI EEVYVGGKOV VPFSSSV

General References

Yuan G, et al. (1999). J Biol Chem. 274(12):8175-80 Trautwein-Schult A, et al (2014) J Mol Microbiol Biotechnol. 24(2):67-81

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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

