

## GLYAT Human

**Description:** GLYAT Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 316 amino acids (1-296) and having a molecular mass of 36.0 kDa. The GLYAT is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-155

For research use only.

**Synonyms:** Glycine-N-acyltransferase, ACGNAT, GAT, CAT, AAc, HRP-1(CLP), Acyl-CoA: glycine amino acid N-acyltransferase, EC 2.3.1.13.

**Source:** Escherichia Coli.

**Physical Appearance:** GLYAT is supplied as a sterile filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MMLPLQGAQM LQMLEKSLRK  
SLPASLKVYG TVFHINHGPN FNLKAVVDKW PDFNTVVVCP QEQDMTDDLD HYTNTYQIYS  
KDPQNCQEFL GSPELINWKQ HLQIQSSQPS LNEAIQNLA IKSFKVKQTQ RILYMAAETA  
KELTPFLLKS KILSPSGGKP KAINQEMFKL SSMDVTHAHL VNKFWHFGGN ERSQRFIERC  
IQTFPTCCLL GP

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

**Formulation:**

GLYAT protein (0.5mg/ml) is supplied in 20mM Tris-HCL, pH-8, 1mM DTT and 20% Glycerol.

**Stability:**

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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

GLYAT is a mitochondrial acyltransferase that conjugates glycine with acyl-CoA substrates in the mitochondria. GLYAT is vital to the detoxification of endogenous and xenobiotic acyl-CoA's.

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