

GATM, 38-423aa, Human, His tag, E.coli

Cat.NO.: TP02203

3th Edition

Synonyms:Glycine amidinotransferase, mitochondrial, AGAT, AT.

Description:GATM (Glycine amidinotransferase, mitochondrial) is a mitochondrial enzyme that belongs to the amidinotransferase family. This enzyme is involved in creatine biosynthesis, whereby it catalyzes the transfer of a guanido group from L-arginine to glycine, resulting in guanidinoacetic acid, the immediate precursor of creatine. Creatine plays a vital role in energy metabolism in muscle tissues.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl

Molecular Weight:46.9kDa (410aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMSTQAATASSRNSCAADDKATEPLPKDCPVSSYNEWDPLEEVIVGRAENAC
VPPFTIEVKANTYEKYWPFYQKQGGHYFPKDHLKKAFAEIEEMCNILKTEGVTVRRPDPIDWSLKYKTPDFESTGLY
SAMPRDILIVVGNIEEAPMAWRSRFFEYRAYRSIIKDYFHRGAKWTTAPKPTMADELYNQDYPIHSVEDRHKLAAQ
GKFVTTEFEPFCFDAADFIRAGRDIFAQRSQVTNYLGIEMWRRHLAPDYRVHIIISFKDPNPMHIDATFNIIGPGIVLSNP
DRPCHQIDLFKKAGWTIITPPTPIIPDDHPLWMSSKWLSMNVLMMLDEKRVMDANEVPIQKMFELGITTIVNIRNA
NSLGGGFHCWTCDVRRRGTLQSYLD

Purity:> 95% by HPLC

Concentration:1mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage: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.