

GMPS, 1-693aa, Human, His tag, E.coli

Cat.NO.: TP02283

3th Edition

Synonyms:GMPS synthase [glutamine-hydrolyzing]

Description:GMPS synthase, also known as GMPS, is involved in purine biosynthesis. Existing as a homodimer, GMPS catalyzes the last step in the GMP synthesis pathway, namely the ATP-dependent amination of XMP to GMP. GMPS contains one GMP-binding domain and one glutamine amidotransferase type-1 domain through which it conveys its catalytic activity.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

Molecular Weight:79.2 kDa (717aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMALCNGDSKLENAGGDLKDGHHHYEGAVVILDAGAQQYGKVIDRRVRELFV
QSEIFPLETPAFAIKEQQFRAIIISGGPNSVYAEDAPWFDPAIFTIGKPVLGICYGMQMMNKVFGGTVHKKSVREDGV
FNISVDNTCSLFRGLQKEEVVLLTHGDSVDKVDGFKVVARSGNIVAGIANESKKLYGAQFHPEVGLTENGKVLKN
FLYDIAGCSGTFTVQNRELECIKEREKRVGTSKVLVLLSGGVDSTVCTALLNRALNQEQVIHIDNGFMRKRESQSV
EEALKKLGIVKVINAAHSFYNGTTLPISDEDRTPRKRISKTLNMTTSPEEKRKIIGDTFVKIANEVIGEMNLKPEEVF
LAQGTLRPDLIESASLVASGKAEIKTHHNDTELIRKLREEGKVIPLKDFHKDEVIRLRELGLPEELVSRHPFPGPG
LAIRVICAEEPYICKDFPETNNILKIVADFSASVKKPHTLLQRVKACTTEEDQEKLQITSLHSLNAFLPIKTVGVQGD
CRSYSYVCGISSKDEPDWESLIFLARLIPRMCHNVNRVYIFGPPVKEPPTDVTPTFLTGTGLSTLRQADFEAHNILR
ESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTFITSDFMTGIPATPGNEIPVEVVLKVMTEIKKIPGISRIMY
DLTSKPPGTTEWE

Purity:> 95% by HPLC

Concentration:0.5 mg/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.