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gldA, 1-367aa, E. coli, His tag, E.coli

产品货号: TP02248

第三版

别名:Glycerol dehydrogenase, ECK3937, JW5556

描述:gldA catalyzes the NAD-dependent oxidation of glycerol to dihydroxyacetone (glycerone). This protein allows microorganisms to utilize glycerol as a source of carbon under anaerobic conditions. In E.coli, an important role of GldA is also likely to regulate the intracellular level of dihydroxyacetone by catalyzing the reverse reaction, i.e. the conversion of dihydroxyacetone into glycerol. gldA possesses a broad substrate specificity, since it is also able to oxidize 1,2-propanediol and to reduce glycolaldehyde, methylglyoxal and hydroxyacetone into ethylene glycol, lactaldehyde and 1,2-propanediol, respectively. Recombinant E. coli gldA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方:Liquid. In Phosphate buffered saline (pH7.4), 10% glycerol

分子量:41.1 kDa (390aa) confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMGSMDRIIQSPGKYIQGADVINRLGEYLNKPLAERWLVVGDKFLVGFQAQSTVEKSFKDAG
LVVEIAPFGGECNQNEIDRLRGAETAQCGAILGIGGGKTLDTAKALAHFMGVPVAIAPTIASTDAPCSALSVIYTDEGEFDR
YLLLPNNPNMVIVDTKIVAGAPARLLAAGIGDALATWFEARACSRSGATTMAGGKCTQAALALAEALCYNTLLEEKAM
LAAEQHVVTPALERVIEANTYLSGVGFESGGLAAAHAVHNGLTAIPDAHYYHGEKVAFGTLTQLVLENAPVEEIVAA
LSHAVGLPITLAQLDIKEDVPAKMRIVAEAAACAEGETIHNMPGGATPDQVYAALLVADQYQQRFLQEW

纯度:> 95% by HPLC

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

内毒素:<1.0 EU per 1 ug of protein (determined by LAL method)

存储:+4 ° C 保存 (1-2 周). 长期保存在-20 ° C或者-70 ° C. 避免反复冻融.