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GAD1, 1-224aa, Human, His tag, E.coli

产品货号: TP02174

第三版

别名: Glutamate decarboxylase 1 isoform GAD25, Glutamate decarboxylase 1 (brain, 67kDa), CPSQ1, GAD, SCP

描述: GAD1 is one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. It is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This protein may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form. Recombinant human GAD1 protein, fused to His-tag at N-terminus, was expressed in E.coli .

配方: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea

分子量: 27.7 kDa (247 aa)

序列:

MGSSHHHHHSSGLVPRGSHMGSMASSTPSSSATSSNAGADPNTTTLRPTTYDTWCGVAHGCTRKLGKICGFLQRTNS
LEEKSRLLVSAFKERQSSKNLLSCENS DRDARFRRTETDFSNLFARDLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVL
DFHHPHQLLEGMEGFNLELSDHPESLEQILVDCRDTLKYGVRTGHPRFFNQLSTGLDIIGLAGEWLTSTANTNMPSDMRE
CWLLR

纯度: > 95% by HPLC

浓度: 0.5 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.