

Glutamate Decarboxylase 1 Human Recombinant

Item Number	rAP-0970
Synonyms	Glutamate Decarboxylase 1 (Brain, 67kDa), GAD, Glutamate Decarboxylase 67 KDa Isoform, 67 KDa Glutamic Acid Decarboxylase, GAD-67, EC 4.1.1.15, CPSQ1, SCP, Glutamate Decarboxylase 1 (Brain, 67kD), Glutamate Decarboxylase 1, GAD67, EC 4.1.1, GAD1.
Description	GAD1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 247 amino acids (1-224) and having a molecular mass of 27.7kDa. GAD1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Uniprot Accession Number	Q99259
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMASTPS SSATSSNAGA DPNTTTLRPT TYDTWCGVAH GCTRKLGLKI CGFLQRTNSL EEKSRLVSAF KERQSSKNLL SCENSDRDAR FRRTETDFSN LFARDLL- PAK NGEEQTVQFL LEVVDILLNY VRKTFDRSTK VLDFFHHPQL LEGMEGFNLE LSDHPESLEQ ILVD- CRDTLK YGVRTGHPRF FNQLSTGLDI IGLAGEWLTS TANTNMPSDM RECWLLR.
Source	E.coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. 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.
Formulation and Purity	The GAD1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea. Greater than 85% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**