

Total GAD-65/67 Cell-Based Colorimetric ELISA Kit

Catalog No :	KA3268C
Reactivity :	Human;Mouse
Applications :	ELISA
Gene Name :	GAD1/GAD2
Human Swiss Prot No :	Q99259/Q05329
Storage Stability :	2-8 °C/6 months
Detection Method :	Colorimetric
Background :	<p>catalytic activity:L-glutamate = 4-aminobutanoate + CO(2).,cofactor:Pyridoxal phosphate.,disease:Defects in GAD1 are the cause of autosomal recessive symmetric spastic cerebral palsy (SCP) [MIM:603513]. Cerebral palsy (CP) is an heterogeneous group of neurological disorders of movement and/or posture, with an estimated incidence of 1 in 250 to 1'000 live births, making CP one the commonest congenital disabilities. Non-progressive forms of symmetrical, spastic CP have been identified, which show a Mendelian autosomal recessive pattern of inheritance. Patients present developmental delay, mental retardation and sometimes epilepsy as part of the phenotype.,function:Catalyzes the production of GABA.,online information:Glutamate decarboxylase entry,similarity:Belongs to the group II decarboxylase family.,subunit:Homodimer.,tissue specificity:Isoform 3 is expressed in pancreatic islets, testis, adrenal cortex, and perhaps other endocrine tissues, but not in brain.,</p>
Function :	<p>regulation of neurotransmitter levels, succinate metabolic process, glutamate metabolic process, glutamate catabolic process, glutamate decarboxylation to succinate, cell-cell signaling, synaptic transmission, cellular amino acid catabolic process, glutamine family amino acid metabolic process, glutamine family amino acid catabolic process, amine catabolic process, organic acid catabolic process, protein-cofactor linkage, transmission of nerve impulse, neurotransmitter metabolic process, neurotransmitter biosynthetic process, dicarboxylic acid metabolic process, carboxylic acid catabolic process, neurological system process,</p>
Expression :	<p>[Isoform 1]: Expressed in brain. ; [Isoform 3]: Expressed in pancreatic islets, testis, adrenal cortex, and perhaps other endocrine tissues, but not in brain.</p>

Sort : 22667**No4 :** 1**Modifications :** Unmodified

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