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Datasheet for ABIN7505296
GAD Protein (AA 1-350) (His tag)

Overview

Quantity:	100 µg
Target:	GAD (GAD1)
Protein Characteristics:	AA 1-350
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAD protein is labelled with His tag.

Product Details

Sequence:	Met1-Try350
Characteristics:	A DNA sequence encoding the Human GAD1GAD,GAD67 protein (Q99259) (Met1-Try350) was expressed with a C-His,N-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	GAD (GAD1)
Alternative Name:	GAD1GAD,GAD67 (GAD1 Products)
Background:	Abbreviation: GAD1GAD,GAD67 Target Synonym: CPSQ1;GAD;SCP Background: Glutamate decarboxylase 1, also known as 67 kDa glutamic acid decarboxylase, Glutamate decarboxylase 67 kDa isoform and GAD1, is a member of the group II decarboxylase

Target Details

family. GAD1 is expressed in benign and malignant prostatic tissue and may serve as a highly prostate-specific tissue biomarker. GAD1 isoform 3 is expressed in pancreatic islets, testis, adrenal cortex, and perhaps other endocrine tissues, but not in brain. Tissue-specific markers are useful for identification of tumour type in advanced cancers of unknown origin. In plants, as in most eukaryotes, glutamate decarboxylase catalyses the synthesis of GABA. Root-specific calcium/calmodulin-regulated GAD1 plays a major role in GABA synthesis in plants under normal growth conditions and in response to stress. Defects in GAD1 are the cause of cerebral palsy spastic quadriplegic type 1 (CPSQ1) which is a non-progressive disorder of movement and/or posture resulting from defects in the developing central nervous system. Affected individuals manifest symmetrical, non-progressive spasticity and no adverse perinatal history or obvious underlying alternative diagnosis.

Molecular Weight:	Calculated MW: 38.39 kDa Observed MW: 39 kDa
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UniProt:	Q99259-1
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
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Storage:	4 °C, -20 °C, -80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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Expiry Date:	12 months
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