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Recombinant human Glutamine synthetase protein, N-His

Catalog Number:	bs-42310P
Concentration:	>0.5mg/ml
Species:	Human
AA Seq:	1-373/373
Predicted MW:	45.6 kDa
Tags:	N-His
Endotoxin:	Not analyzed
Purity:	>90% as determined by SDS-PAGE
Purification:	AC
Form:	Lyophilized or Liquid
Storage:	20mM Tris-Hcl (pH=8.0) with 150mM Nacl. Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.
Background:	Glutamine Synthetase catalyzes the conversion of ammonia and glutamate to glutamine. It is found in astrocytes as an octamer of identical 42 kDa subunits. The function of Glutamine Synthetase is the detoxification of brain ammonia. It also has an important role in the metabolic regulation of neurotransmitter glutamate. Because of the multiple functions and importance of Glutamine Synthetase in cellular metabolism, both catalytic activities and synthesis are highly regulated. The activity of Glutamine Synthetase is controlled by adenylylation. Its activity is decreased in the cerebral cortex of brains affected by Alzheimer's disease, particularly in the vicinity of senile plaques. It is also decreased under conditions of glucose deprivation. The level of expression of Glutamine Synthetase is increased during ischemia in vivo or hypoxia in culture.

VALIDATION IMAGES

The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.