

Active Native Glutamine synthetase

Cat. No. GS-32 Lot. No. (See product label)

SPECIFICATION

Product Overview	Native Glutamine synthetase (EC 6.3.1.2) was purified from Bacillus sp..
Species	Bacillus sp.
Source	Bacillus sp.
Description	Glutamine synthetase (GS) (EC 6.3.1.2) is an enzyme that plays an essential role in the metabolism of nitrogen by catalyzing the condensation of glutamate and ammonia to form glutamine: $\text{Glutamate} + \text{ATP} + \text{NH}_3 \rightarrow \text{Glutamine} + \text{ADP} + \text{phosphate}$ Glutamine Synthetase uses ammonia produced by nitrate reduction, amino acid degradation, and photorespiration. The amide group of glutamate is a nitrogen source for the synthesis of glutamine pathway metabolites.
Form	White to pale brownish lyophilized powder.
Bio-activity	≥ 15 U/mg
Storage	Store in tightly closed containers, desiccated, protected from light, at -20°C.

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