

Glutamate Decarboxylase (EcGadB)

Product Information

Cat#	DIA-732
Descriptions	Glutamate decarboxylase (EcGadB) from Escherichia coli is a pyridoxal 5'-phosphate-dependent enzyme that catalyzes the α -decarboxylation of L-glutamate to generate γ -aminobutyric acid, and is extensively utilized in GABA bioproduction and food biotechnology applications.
Applications	Glutamate decarboxylase (EcGadB) is widely applied in GABA content detection kits and amino acid biotransformation assay reagent development.
CAS No.	141-1-15
Enzyme Commission Number	EC 4.1.1.15
Enzyme Source	E.coli recombinant Ec Gad B from Escherichia coli.
Reaction	$H^+ + L\text{-glutamate} = 4\text{-aminobutanoate} + CO_2$
Activity Definition	One unit is defined as the amount of enzyme that catalyzes the formation of 1 μ mol of 4-aminobutanoate from L-glutamate at 37°C.