

Recombinant Arabidopsis thaliana Gamma-glutamyl hydrolase (GGH)

Cat# P0053

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

INFORMATION

Product Name	Recombinant Arabidopsis thaliana Gamma-glutamyl hydrolase(GGH)
Cat. No.	P0053
Size	20ug/100ug/1mg
Uniprot	O65355
Function	Cleaves the polyglutamate sidechains of folate polyglutamates in the vacuole. Is important for polyglutamyl tail length determination before vacuolar exit. Plays a role on folate stability and intracellular folate content. Has endopeptidase activity against 4-amino-10-methylpteroyl penta-, tetra-, tri- and di-gamma-L-glutamate substrates and is responsible for the production of folic acid, also called pteroylglutamic acid (PteGlu) from teroylpolyglutamates.
Species	Arabidopsis thaliana (Mouse-ear cress)
Target	GGH2
Expression Region	23-347
Target Protein Sequence	KAATILLP SQTGFDISRS PVCSAPDPNL NYRPVIGILS HPGDGASGRL SNATDASSIA ASYVKLAESG GARVIPLIFN EPEEILFQKL ELVNGVILTG GWAKEGLYFE IVKKIFNKVL ERNDAGEHFP IYAICLG FEL LTMII SQNRD IFEKMDARNS ASSLQF VENV NIQGTIFQRF PPELLKKLGT DCLVMQNHFRF GISPQSFEGN IALSNFFKIV TTCVDDNGKV YVSTVQSTKY PVTGFQWHPE KNAFEWGSSK IPHSEDAIQV TQHAANHLVS EARKSLNRPE SKKVLSNLIY NYKPTYCGYA GIGYDEVYIF TQQRSL
Source	E.coli
Physical Appearance	Lyophilized powder
Buffer before Lyophilization	Tris/PBS-based buffer, 6% Trehalose, pH 8.0
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C /-80°C . Our default final concentration of glycerol is 50%. Customers could use it as reference.
Purity	>85% (SDS-PAGE)

Storage instruction	Store at -20°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
Alias	GGH2; GGH; GGH1; At1g78680; F9K20.28; Gamma-glutamyl hydrolase 2; AtGGH2; EC 3.4.19.9; Conjugase; GH; Gamma-Glu-X carboxypeptidase

PRODUCT USE LIMITATION

These products are intended for research use only.