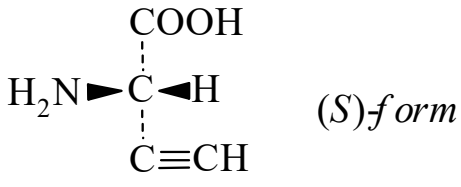
>>**Entry Name: 2-Amino-3-butynoic acid,** 9CI
Synonym(s): 2-Ethynylglycine. FR 900130. Antibiotic FR 900130



(*S*)-form

CAS Registry Number: 73410-55-6

Molecular Formula: $C_4H_5NO_2$
Molecular Weight: 99.089
Accurate Mass: 99.032029
Percentage Composition: C 48.49%; H 5.09%; N 14.14%; O 32.29%
General Statement: Amino acid antibiotic

>>**Variant:** (*R*)-form

Molecular Formula: $C_4H_5NO_2$
Molecular Weight: 99.089
Accurate Mass: 99.032029
Percentage Composition: C 48.49%; H 5.09%; N 14.14%; O 32.29%

>>**Derivative:** *N-tert*-Butyloxycarbonyl

CAS Registry Number: 162107-50-8
Molecular Formula: $C_9H_{13}NO_4$
Molecular Weight: 199.206
Accurate Mass: 199.084459
Percentage Composition: C 54.26%; H 6.58%; N 7.03%; O 32.13%
Physical Description: Oil
Optical Rotation: $[\alpha]_D^{20}$ –53.9 (c, 0.89 in $CHCl_3$) (>90% ee)

>>**Variant:** (*S*)-form

CAS Registry Number: 73537-09-4

Molecular Formula: $C_4H_5NO_2$
Molecular Weight: 99.089
Accurate Mass: 99.032029
Percentage Composition: C 48.49%; H 5.09%; N 14.14%; O 32.29%
Biological Source: Isol. from *Streptomyces catenulae*
Use/Importance: Synergistic with D-cycloserine
Biological Use/Importance: Active against gram-positive bacteria
Physical Description: Light-yellow unstable powder
Solubility: Sol. H_2O; fairly sol. MeOH; poorly sol. EtOH, hexane

>>**Derivative:** *N*-Ac, Na salt

Optical Rotation: $[\alpha]_D^{20}$ +37.5 (c, 0.5 in H_2O)

References:

U.S. Pat., 1963, 3 079 345; *CA*, **58**, 9922, *(synth, use)*
Kuroda, Y. *et al.*, *J. Antibiot.*, 1980, **33**, 125; 132, *(isol, props)*
Williams, R.M. *et al.*, *J.C.S. Perkin 1*, 1990, 171, *(synth)*
Meffre, P. *et al.*, *Tetrahedron*, 1996, **52**, 11215-11238, *(R-form, N-tert-butyloxycarbonyl)*