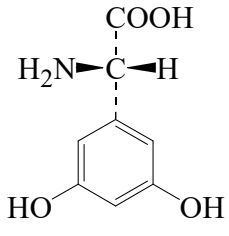
>>**Entry Name: 2-Amino-2-(3,5-dihydroxyphenyl)acetic acid**

Synonym(s): α-Amino-3,5-dihydroxybenzeneacetic acid, 9CI. 3,5-Dihydroxyphenylglycine. DHPG



(*S*)-*form*

CAS Registry Number: 146255-66-5
Related CAS Registry Numbers(s): 19641-83-9

Molecular Formula: $C_8H_9NO_4$
Molecular Weight: 183.163
Accurate Mass: 183.053159
Percentage Composition: C 52.46%; H 4.95%; N 7.65%; O 34.94%
Source/Synthesis: Isol. from *Euphorbia helioscopia*
Biological Use/Importance: Metabotropic glutamate $mglu_1$-receptor agonist
Melting Point: Mp 230-232 dec.°

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

CAS Registry Number: 117468-89-0
Molecular Formula: $C_8H_9NO_4$
Molecular Weight: 183.163
Accurate Mass: 183.053159
Percentage Composition: C 52.46%; H 4.95%; N 7.65%; O 34.94%
Melting Point: Mp 205-206°
Optical Rotation: $[\alpha]_D^{20}$ –103 (c, 0.25 in 1*M* HCl)

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

CAS Registry Number: 162870-29-3

Molecular Formula: $C_8H_9NO_4$
Molecular Weight: 183.163
Accurate Mass: 183.053159
Percentage Composition: C 52.46%; H 4.95%; N 7.65%; O 34.94%
Biological Source: Isol. from *Euphorbia helioscopia*
Melting Point: Mp 230-232° (dec.)
Optical Rotation: $[\alpha]_D^{29}$ +70 (c, 0.1 in H_2O)
Other Data: Stereochem. of natural product not determined, presumably (*S*-). Pharmacol. active isomer. Mp > 250°

References:

Müller, P. *et al.*, *Z. Naturforsch., B*, 1968, **23**, 659, *(isol, struct)*
Ito, I. *et al.*, *NeuroReport*, 1992, **3**, 1013-1016, *(pharmacol)*
Baker, S.R. *et al.*, *Bioorg. Med. Chem. Lett.*, 1995, **5**, 223-228, *(S-form, synth)*
O'Leary, D.M. *et al.*, *Neurosci. Lett.*, 1997, **229**, 29-32, *(pharmacol)*
Garcia, M.J. *et al.*, *Tetrahedron: Asymmetry*, 1997, **8**, 85-92, *(R-form, synth)*