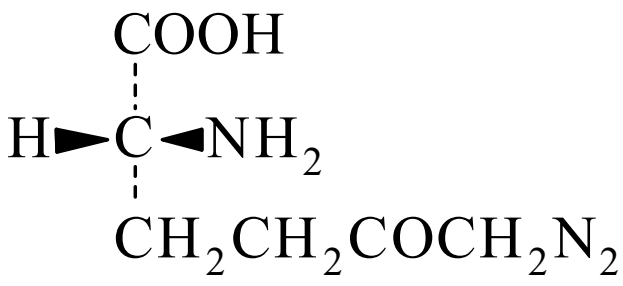
>>**Entry Name: 2-Amino-6-diazo-5-oxohexanoic acid**
Synonym(s): 6-Diazo-5-oxonorleucine, 9CI. DON. NSC 7365



(*R*)-*form*

CAS Registry Number: 764-17-0

Molecular Formula: $C_6H_9N_3O_3$
Molecular Weight: 171.155
Accurate Mass: 171.064392
Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Use/Importance: Antineoplastic agent active against human carcinoma but of limited use owing to toxicity
Solubility: BERDY SOL: Sol. H_2O; fairly sol. MeOH, EtOH; poorly sol. butanol, hexane
UV: [neutral] λ_{max} 244 (E1%/1cm 376); 274 (E1%/1cm 683) (pH 7 buffer) (Berdy) [acid] λ_{max} (HCl) (Berdy) [neutral] λ_{max} 274 (ε 10889) (H_2O) (Berdy)
Hazard & Toxicity: BERDY HAZD : LD_{50} (mus, ivn) 62 - 90 mg/kg

>>**Variant:** (*R*)-form
Synonym(s): D-form

CAS Registry Number: 71629-86-2
Molecular Formula: $C_6H_9N_3O_3$
Molecular Weight: 171.155
Accurate Mass: 171.064392
Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%
Physical Description: Cryst. (EtOH aq.)
Optical Rotation: $[\alpha]_D^{25}$–16.1 (c, 1.98 in H_2O)
Sigma: D0778

>>**Variant:** (*S*)-form
Synonym(s): L-form

CAS Registry Number: 157-03-9

Molecular Formula: $C_6H_9N_3O_3$
Molecular Weight: 171.155
Accurate Mass: 171.064392
Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%
Biological Source: Prod. by *Streptomyces ambofaciens*
Physical Description: Yellow cryst. (EtOH aq.)
Melting Point: Mp 142-150 dec.°
Optical Rotation: $[\alpha]_D^{26}$+21 (c, 5.4 in H_2O)
Other Data: Unstable in soln., v. unstable in acid or alkali. λ_{max} 244, 274 nm (H_2O). Pharmacol. active isomer
Hazard & Toxicity: LD_{50} (mus, orl) 197 mg/kg. Exp. reprod. and teratogenic effects

Fluka: 33515
Sigma: D2141

>>**Derivative:** *N*-Ac
Synonym(s): *N*-Acetyl-6-diazo-5-oxo-L-norleucine, 9CI. **Duazomycin,** INN, USAN**.** Duazomycin A. *N*-Acetyl DON. Antibiotic BA 8509A. NSC 51097. Diazamycin A. BA 8509A