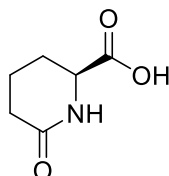


L-Pyrohomoglutamic acid

Code No.: **BIA-P2220**

Pack sizes: **1 mg, 5 mg**



Synonyms : L-Pyro- α -aminoadipic acid, (2S)-6-Oxopiperidine-2-carboxylic acid

Specifications

CAS #	: 34622-39-4
Molecular Formula	: C₆H₉NO₃
Molecular Weight	: 143.1
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

L-Pyrohomoglutamic acid (S-6-oxopiperidine-2-carboxylic acid) is a δ -lactam formed the head-to-tail cyclisation of L-homoglutamic acid. Unlike pyroglutamic acid, L-pyrohomoglutamic acid has not been reported as a pyrolysis product but is re-named to better reflect the compound's structural relationship to L-homoglutamic acid. L-Pyrohomoglutamic acid has been reported as a secondary metabolite of *Nocardia lactamdurans* and a co-metabolite of penicillin V from *Penicillium chrysogenum* but its pharmacological properties have not been extensively investigated.

References

1. Overexpression of the *Nocardia lactamdurans* alpha-aminoadipyl-cysteinyl-valine synthetase in *Streptomyces lividans*. The purified multienzyme uses cystathionine and 6-oxopiperidine 2-carboxylate as substrates for synthesis of the tripeptide. Coque J.J.R. et al. *Eur J Biochem.* 1996, 242, 264.