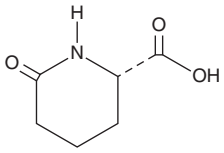
PRODUCT INFORMATION

L-Pyrohomoglutamic Acid

Item No. 31694

CAS Registry No.:	34622-39-4
Formal Name:	(2S)-6-oxo-2-piperidinecarboxylic acid
Synonyms:	L-Pyro-α-aminoadipic Acid, 6-Oxo-L-pipecolic Acid
MF:	$C_6H_9NO_3$
FW:	143.1
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

L-Pyrohomoglutamic acid is supplied as a solid. A stock solution may be made by dissolving the L-pyrohomoglutamic acid in the solvent of choice, which should be purged with an inert gas. L-Pyrohomoglutamic acid is soluble in organic solvents such as ethanol and DMSO. The solubility of L-pyrohomoglutamic acid in these solvents is approximately 0.2 and 1 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of L-pyrohomoglutamic acid can be prepared by directly dissolving the L-pyrohomoglutamic acid in aqueous buffers. The solubility of L-pyrohomoglutamic acid in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

L-Pyrohomoglutamic acid is an amino acid building block.[1,2] It has been used in the synthesis of ligands for FK506-binding proteins (FKBPs) and histone deacetylase (HDAC) inhibitors.

References

1. Pomplun, S., Wang, Y., Kirschner, A., *et al*. Rational design and asymmetric synthesis of potent and neurotrophic ligands for FK506-binding proteins (FKBPs). *Angew. Chem. Int. Ed.* **54(1)**, 345-348 (2015).
2. Taddei, M., Cini, E., Giannotti, L., *et al*. Lactam based 7-amino suberoylamide hydroxamic acids as potent HDAC inhibitors. *Bioorg. Med. Chem. Lett*. **24(1)**, 61-64 (2014).

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