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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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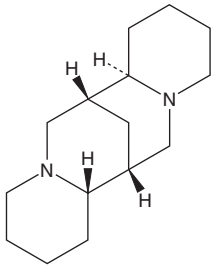
PRODUCT INFORMATION

(+)-Sparteine

Item No. 36400

CAS Registry No.:	492-08-0
Formal Name:	(7R,7aR,14R,14aS)-dodecahydro-7,14-methano-2H,6H-dipyrido[1,2-a:1′,2′-e][1,5]diazocine
Synonyms:	Pachycarpin, Pachycarpine
MF:	$C_{15}H_{26}N_2$
FW:	234.4
Purity:	≥95%
Supplied as:	A neat liquid
Storage:	-20°C
Stability:	≥2 years
Item Origin:	Plant/*Parochetus communis*



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

Laboratory Procedures

(+)-Sparteine is supplied as a neat liquid. A stock solution may be made by dissolving the (+)-sparteine in the solvent of choice, which should be purged with an inert gas. (+)-Sparteine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of (+)-sparteine in these solvents is approximately 20, 33, and 11 mg/ml, respectively.

(+)-Sparteine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (+)-sparteine should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. The solubility of (+)-sparteine in PBS (pH 7.2) is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

(+)-Sparteine is a quinolizidine alkaloid that has been found in *Fabaceae*.[1] It has been used as a chiral ligand in stereoselective lithiation reactions.[2,3]

References

1. van Wyk, B.-E. and Verdoorn, G.H. Optical rotation of quinolizidine alkaloids: An important variable in chemosystematic studies of *Fabaceae*. *Pl. Syst. Evol.* **198(3/4)**, 267-274 (1995).
2. McSweeney, C.M., Foley, V.M., and McGlacken, G.P. The asymmetric alkylation of dimethylhydrazones; intermolecular chirality transfer using sparteine as chiral ligand. *Chem. Commun. (Camb.)* **50(94)**, 14817-14819 (2014).
3. Lin, W., Zhang, K.-F., and Baudoin, O. Regiodivergent enantioselective C-H functionalization of Boc-1,3-oxazinanes and application to the synthesis of β_2 and β_3-amino acids. *Nat. Catal.* **2(10)**, 882-888 (2019).

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