

Chem-Impex International, Inc.

Tel: (630) 766-2112

E-mail: sales@chemimpex.com

Shipping and Correspondence:

935 Dillon Drive

Wood Dale, IL 60191

Fax: (630) 766-2218

Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	11436
Lot Number	000672-01389-196-02
Product	(2S,4S)-4-Fluoro-pyrrolidine-2-carboxylic acid <i>cis</i> -4-Fluoro-L-Pro-OH <i>cis</i> -4-Fluoro-L-proline
CAS Number	2438-57-5
Molecular Formula	C ₅ H ₈ FNO ₂
Molecular Weight	133.12

Appearance	White to pale yellow solid
Optical Rotation	[α] _D ^{22.6} = -44.0° (C=1.16 in H ₂ O)
Analysis by Mass Spectra	Conforms to standard, [M+H] ⁺ = 134.1 ESI Positive
¹³C NMR	Conforms to structure
¹⁹F NMR	Conforms to structure
¹H NMR	Conforms to structure
Purity	> 97% (NMR)
Storage	Store at 0-8 °C
Additional Information	Optical purity of starting material was assessed to 99+% by Chiral HPLC.
Remarks	See material safety data sheet for additional information For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager