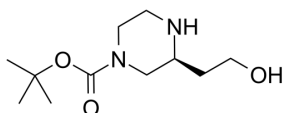


Certificate of Analysis

Product Name: (S)-tert-Butyl 3-(2-hydroxyethyl)piperazine-1-carboxylate
Cat. No.: CS-0079172
CAS No.: 1273577-11-9
Batch No.: Lf1010173592
Chemical Name: 1-Piperazinecarboxylic acid, 3-(2-hydroxyethyl)-, 1,1-dimethylethyl ester, (3S)-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C₁₁H₂₂N₂O₃
Molecular Weight: 230.30
Storage: 2-8°C, protect from light
Chemical Structure:



ANALYTICAL DATA

Appearance: Off-white to light yellow (Solid)
¹H NMR Spectrum: Consistent with structure
Enantiomeric Excess: 98.50%
Purity (NMR): ≥97.0%
Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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