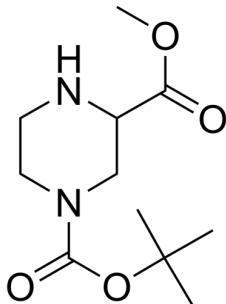
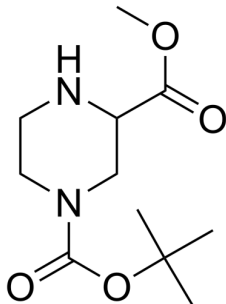


Certificate of Analysis

Compound Information

| | |
|----------------------------|---|
| Product Name: | 1-N-Boc-piperazine-3-carboxylic acid methyl ester |
| Cat. No.: | 1019314 |
| CAS No.: | 129799-08-2 |
| Molecular Formula: | C ₁₁ H ₂₀ N ₂ O ₄ |
| Molecular Weight: | 244.29 |
| Chemical Structure: |  |



Batch Information

| | |
|---------------------|---------------------------|
| Batch No.: | Lf0510132834 |
| Storage: | 2-8°C, protect from light |
| Test Date: | 2022-05-10 |
| Retest Date: | 2025-05-09 |
| Origin: | Shanghai, China |

QC Summary

| | |
|------------------------------------|---|
| Appearance: | White to light yellow (Solid) |
| ¹H NMR Spectrum: | Consistent with structure |
| Purity (NMR): | ≥97.0% |
| Water(KF): | 0.04% |
| OR(C=1.04g/100ml CHCL3): | -0.3° |
| Conclusion: | The product has been tested and complies with the given specifications. |

Caution: Research use only and are not intended for human use.

Tel: 400-821-0725

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