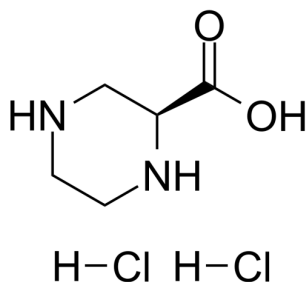


## Certificate of Analysis

### Compound Information

<b>Product Name:</b>	(S)-Piperazine-2-carboxylic acid dihydrochloride
<b>Cat. No.:</b>	1022715
<b>CAS No.:</b>	158663-69-5
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	203.07
<b>Chemical Structure:</b>	



### Batch Information

<b>Batch No.:</b>	Le072391458
<b>Storage:</b>	RT, protect from light
<b>Mfg. Date:</b>	2012-11-09
<b>Retest Date:</b>	2022-11-08
<b>Origin:</b>	Shanghai, China

### QC Summary

<b>Appearance:</b>	White to off-white (Solid)
<b><sup>1</sup>H NMR Spectrum:</b>	Consistent with structure
<b>MS:</b>	Consistent with structure
<b>Purity (NMR):</b>	≥98.0%
<b>Conclusion:</b>	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

E-mail: product@leyan.com

Address: No. 1999 Zhangheng Road, Building 3, Zhangjiang High-Tech Park, Shanghai