



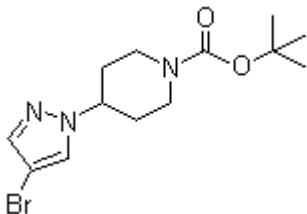
HANGZHOU DINGYAN CHEM CO.,LTD

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CERTIFICATE OF ANALYSIS

NO: DYC011407073

Product name	4-(4-Bromopyrazol-1-yl)piperidine-1-carboxylic acid tert-butyl ester
CAS Number	877399-50-3
Molecule Structure	
Molecule Formula	C ₁₃ H ₂₀ BrN ₃ O ₂
Batch number	1400401
Manuf. Date:	2014-04-01
Testing Date:	2014-04-01

Items	Limits	Results
Quantity	1.5kg	1.57kg
Appearance	White solid	White solid
Melting Point		Not available
Purity (1H NMR)	>98%	>99%
e. e		Not available
Optical Rotation		Not available
Loss on Drying		Not available
Solvent Residue		Not available

Conclusion

HPLC of tert-butyl 4-(4-bromo-1H-pyrazol-1-yl)piperidine-1-carboxylate
(Cat No.TP1087M,CAS No.[877399-50-3])

¹H NMR of tert-butyl 4-(4-bromo-1H-pyrazol-1-yl)piperidine-1-carboxylate
(Cat No.TP1087M,CAS No.[877399-50-3]), DMSO-d⁶, 600 MHz

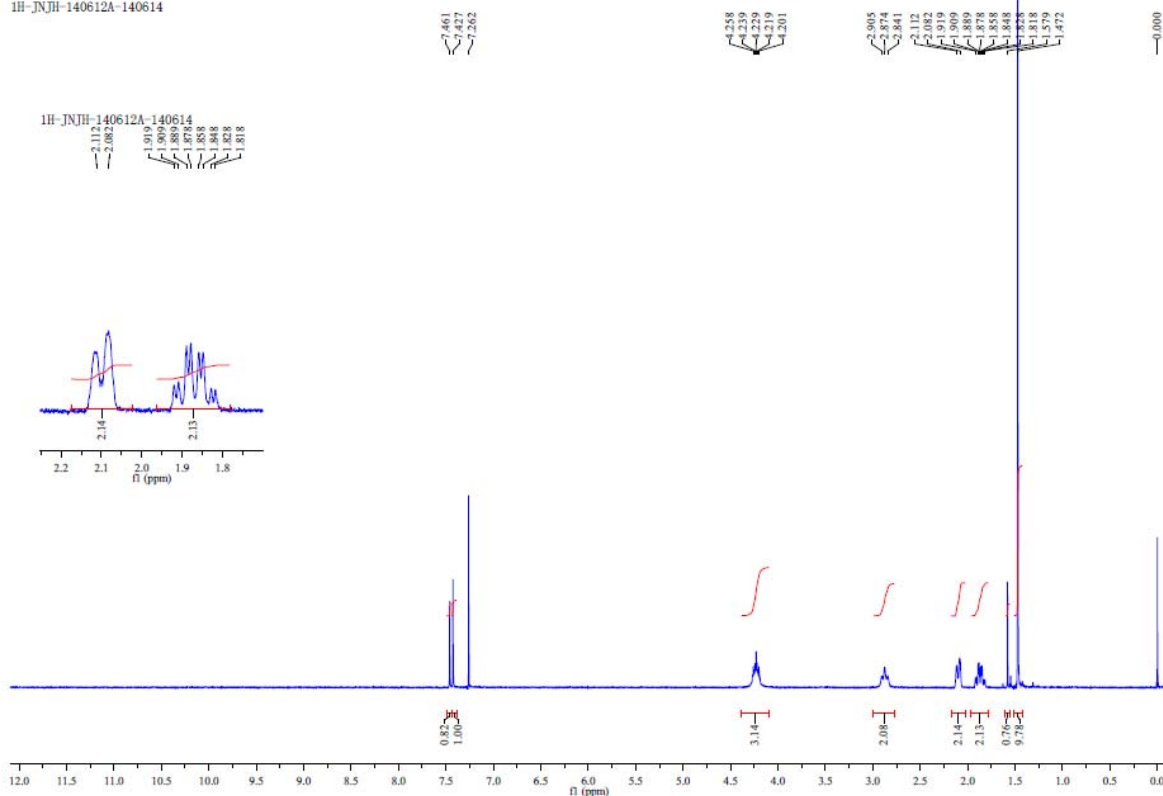


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1H-JNTH-140612A-140614



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