

Reinventing lithium therapeutics by crystal engineering of novel ionic cocrystals

Adam J. Smith^{1,†}, Seol-Hee Kim¹, Naga K. Duggirala³, Jingji Jin², Lukasz Wojtas³, Jared Ehrhart⁴, Brian Giunta², Jun Tan⁴, Michael J. Zaworotko³, R. Douglas Shytle¹

¹Center of Excellence for Aging and Brain Repair, Department of Neurosurgery and Brain Repair, Morsani College of Medicine, University of South Florida, Tampa, FL

²Neuroimmunology Laboratory, Department of Psychiatry and Behavioral Neurosciences, Morsani College of Medicine, University of South Florida, Tampa, FL

³Department of Chemistry, College of Arts and Sciences, University of South Florida, Tampa, FL

⁴Rashid Laboratory for Developmental Neurobiology, Silver Child Development Center, Department of Psychiatry and Behavioral Neurosciences, Morsani College of Medicine, University of South Florida, Tampa, FL

[†]Dr. Adam Smith, Center of Excellence for Aging and Brain Repair, MDC78, Department of Neurosurgery and Brain Repair, University of South Florida, College of Medicine, Tampa, FL, USA 33612, Phone: 813-974-1452; Fax: 813-974-3078; Email: asmith1@health.usf.edu

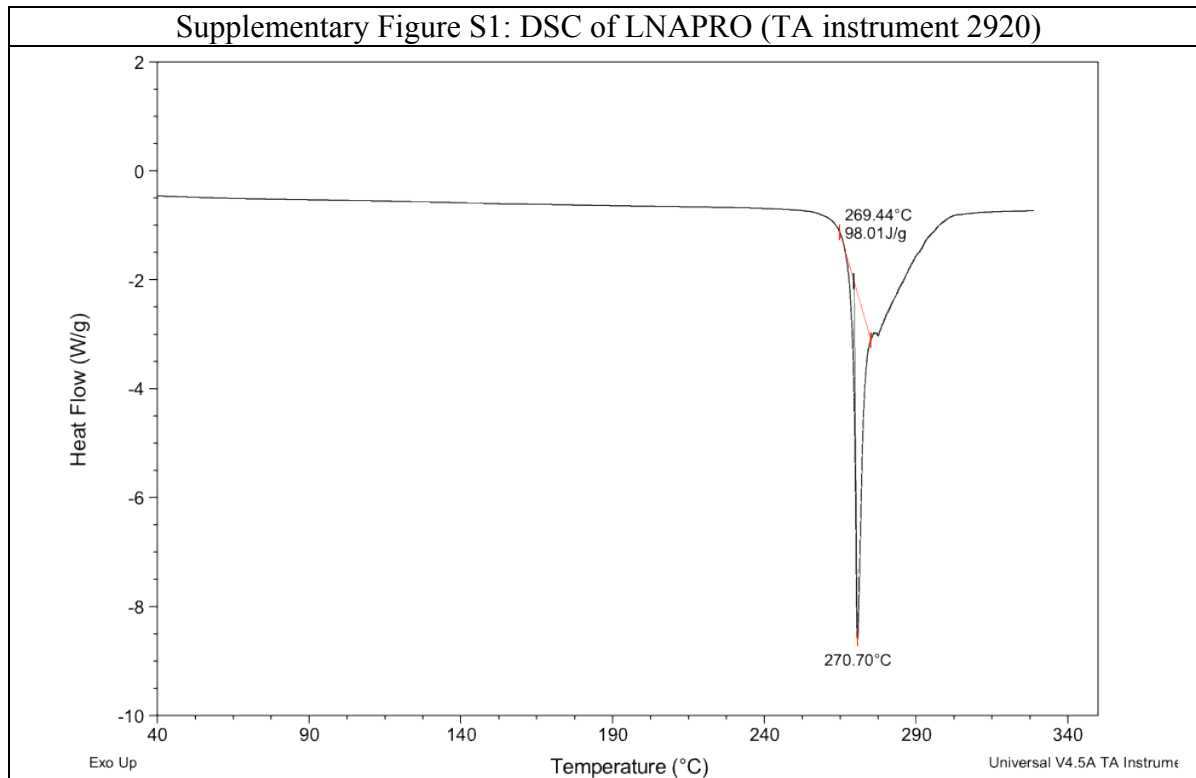
Supplementary information:

Additional characterization data for the reported ICCs of lithium

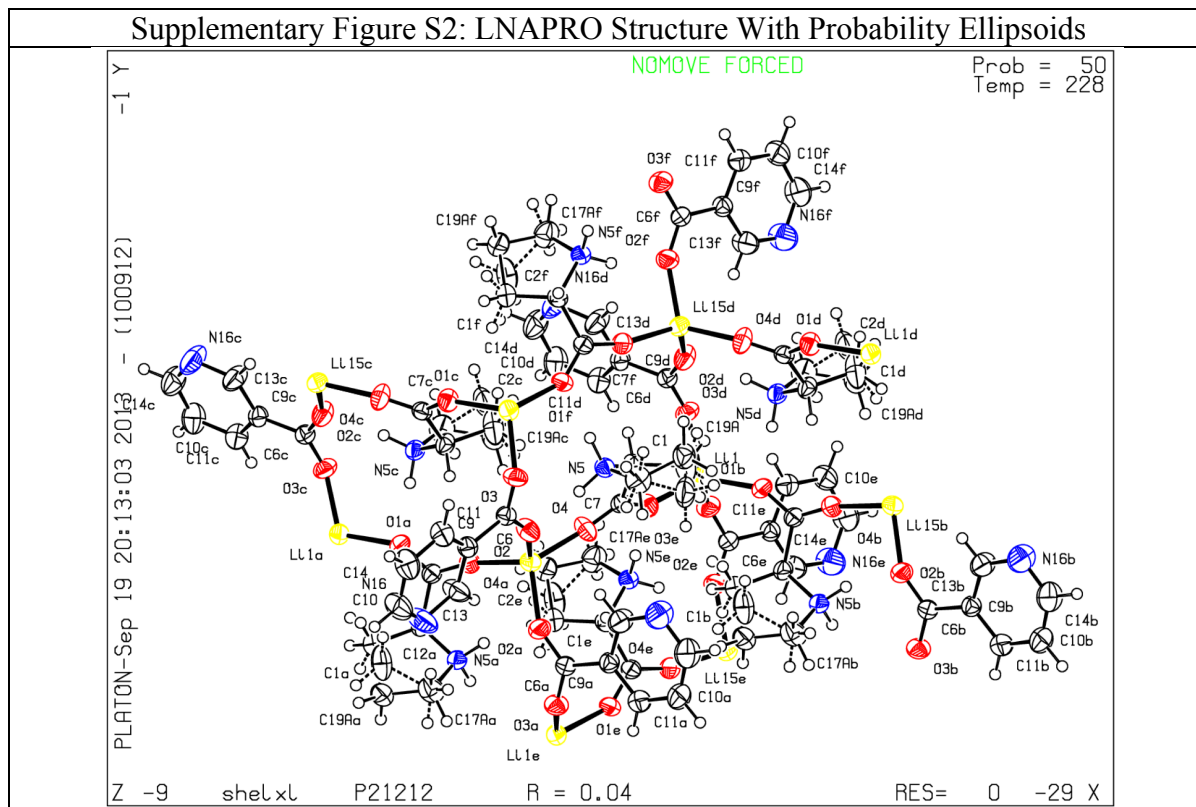
<u>Crystalline form</u>	<u>Page No.</u>
LNAPRO	S2
LISPRO	S3

LNAPRO

Supplementary Figure S1: DSC of LNAPRO (TA instrument 2920)

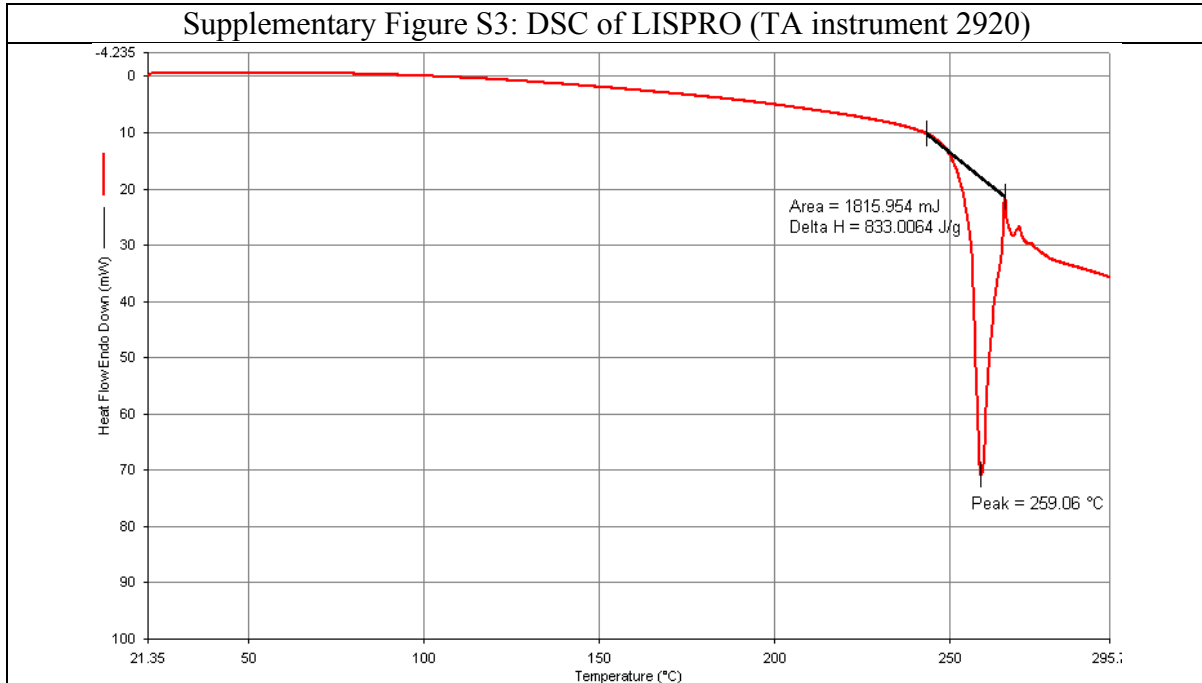


Supplementary Figure S2: LNAPRO Structure With Probability Ellipsoids

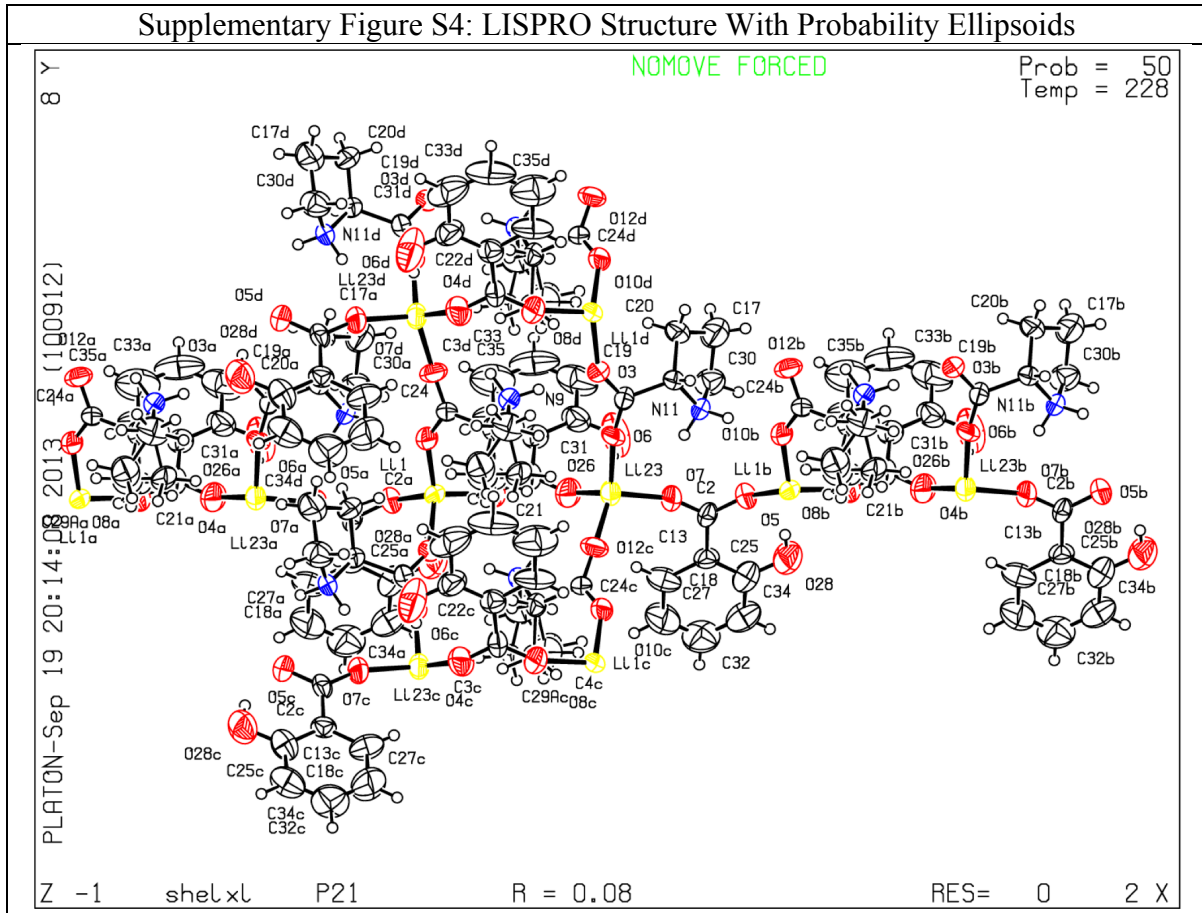


LISPRO

Supplementary Figure S3: DSC of LISPRO (TA instrument 2920)



Supplementary Figure S4: LISPRO Structure With Probability Ellipsoids



Supplementary Figure S5: AAS Purity Verification of LISPRO and LIS

