

AIMS Biophysics, 5(3): 166–181. DOI: 10.3934/biophy.2018.3.166

Received: 01 June 2018 Accepted: 01 August 2018 Published: 25 September 2018

http://www.aimspress.com/journal/biophysics

Research article

Spin-label scanning reveals conformational sensitivity of the bound helical interfaces of IA_3

Katie M. Dunleavy¹,†, Eugene Milshteyn^{1,2},†, Zachary Sorrentino^{1,3},†, Natasha L. Pirman^{1,4}, Zhanglong Liu^{1,5}, Matthew B. Chandler^{1,6}, Peter W. D'Amore^{1,7} and Gail E. Fanucci¹,*

- Department of Chemistry, University of Florida, PO BOX 117200, Gainesville, FL 32611-7200, USA
- ² Department of Radiology and Biomedical Imaging, University of California, 505 Parnassus Avenue, San Francisco, CA 94143, USA
- College of Medicine, University of Florida, 1600 SW Archer Road M509, Gainesville, FL 32610, USA
- ⁴ MilliporeSigma, 400 Summit Drive, Burlington, MA 01803, USA
- ⁵ CVS Health, 1 CVS Drive, Woonsocket, RI 02895, USA
- ⁶ Expertus Laboratories, Inc. 485 North US Highway 17 92 #415, Tampa, FL 32750, USA
- Department of Orthopedic Surgery, LSU Health Science Center, 1542 Tulane Avenue, New Orleans, LA 70112, USA
- * Correspondence: Email: fanucci@chem.ufl.edu; Tel: +3523920872.
- † These three authors contributed equally.

Supplementary

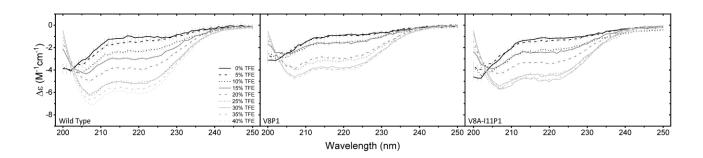


Figure S1. Circular dichroism spectra for Wild Type, V8P1, and V8A-I11P1 variants. Spectra were collected with increasing % TFE concentrations at 27 °C as an average of four scans in 5% increments of (v/v) TFE from 0–40%. Error bars represent the standard deviation of quadruplet measurement on the same sample.

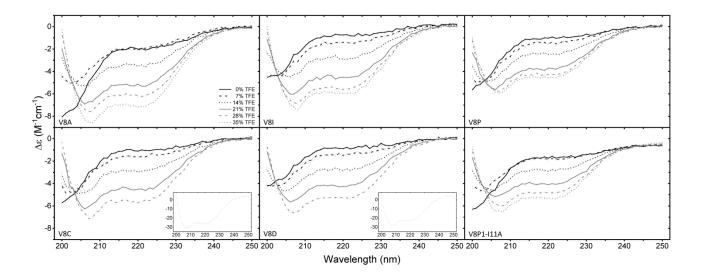


Figure S2. Circular dichroism spectra for V8A, V8I, V8P, V8C, V8D, and V8P1-I11A variants. Spectra were collected with increasing % TFE concentrations at 27 °C as an average of four scans in 7% increments of (v/v) TFE from 0–35%. Error bars represent the standard deviation of quadruplet measurement on the same sample.

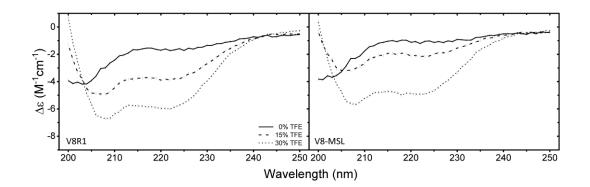


Figure S3. Circular dichroism spectra for V8R1 and V8-MSL variants. Spectra were collected with increasing % TFE concentrations at 27 °C as an average of four scans 0%, 15%, and 30% (v/v) TFE. Error bars represent the standard deviation of quadruplet measurement on the same sample.



© 2018 the Author(s), licensee AIMS Press. This is an open access AIMS Press article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0)