

UNIVERSITY OF CALIFORNIA, SAN DIEGO

BERKELEY · DAVIS · IRVINE · LOS ANGELES · RIVERSIDE · SAN DIEGO · SAN FRANCISCO



SANTA BARBARA · SANTA CRUZ

Gourisankar Ghosh
Professor
858-822-0469 (Phone)
858-534-7042 (Fax)
gghosh@ucsd.edu

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY
NSB #3103
MAIL CODE 0375
9500 GILMAN DRIVE
LA JOLLA, CA 92093

To
Dr. Indrani Mukherjee, Editor
JoVE

February 14, 2017

Dear Indrani,

We are submitting a manuscript entitled, "**A guide to production, crystallization, and structure determination of human IKK1/ α** ", for consideration in JoVE. This work reports determination of the structure of I κ B Kinase 1/ α (IKK1/ α), a Ser/Thr protein kinase that is involved in a myriad of cellular activities primarily through activation of NF- κ B transcription factors. Here we describe all methods necessary for the production and crystal structure determination of this protein.

The much-needed structure determined by successful implementation of cutting-edge hybrid methodologies would be a significant addition to researchers in various fields. Our structural findings provide a unique platform for developing therapeutic strategies in modulating non-canonical NF- κ B signaling pathway, which is a major drug target in many immune disorders and lymphoid malignancies. We thus believe that the details of structure determination process will be of major interest to the general audience of JoVE.

Yours sincerely,

A handwritten signature in cursive script, appearing to read "Gourisankar Ghosh".

Gourisankar Ghosh