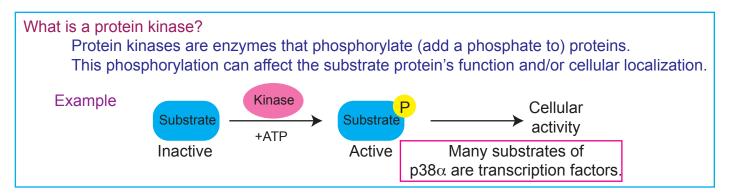


## Blocking expression of the DUX4 gene using small molecules.

Losmapimod is an FDA-approved p38 inhibitor in clinical trial with Fulcrum Therapeutics.

Disclosure: Dr. P. Jones, President of MyFSHD, was a scientific consultant for Fulcrum Therapeutics. He is not involved in the losmapimod clinical trial.

The term p38 refers to p38-alpha MAPK (Mitogen-activated protein kinase). It has a 38kDa mass. There are four isoforms of p38 MAPK ( $\alpha$ ,  $\beta$ ,  $\delta$ , and  $\gamma$ ). The  $\alpha$ ,  $\beta$ , and  $\gamma$  isoforms are expressed in skeletal muscle, however p38 $\alpha$  is the most highly expressed.



p38 MAPK is activated by many cellular signaling pathways and, in turn, can have many effects on the cell.

