

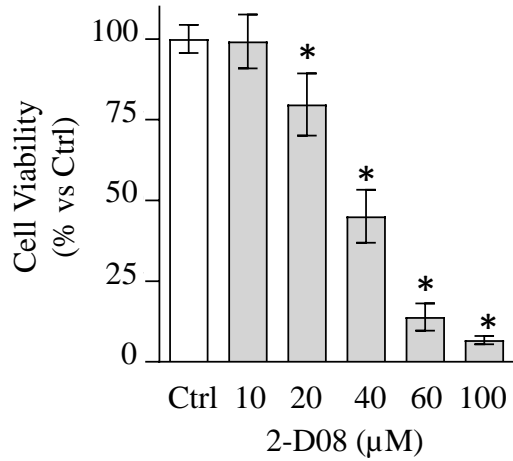
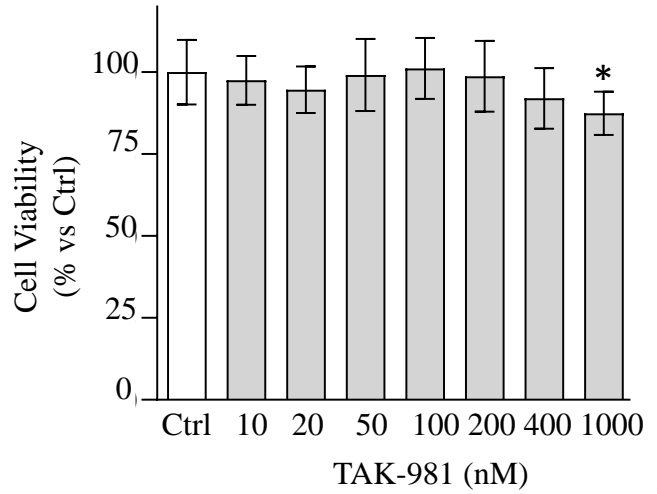
A**B**

Figure S1. Cell viability of CFBE cells after 48 hours of treatment with 2-D08 or TAK-981. Viability of F508del-CFTR expressing CFBE41o- cells was assessed using the MTT assay after 48 hours of treatment with DMSO (Ctrl) or increasing concentrations of 2-D08 (**A**) or TAK-981 (**B**). The results were expressed as a percentage of control (Ctrl) (means \pm SD values, $n = 3$; * $p < 0.05$ vs Ctrl).

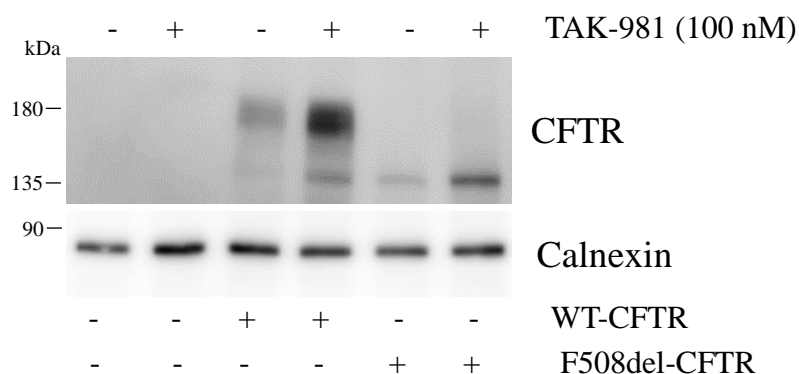


Figure S2. Effect of TAK-981 on transiently expressed WT- and F508del-CFTR in CFBE41o- cells.

CFBE41o- cells were transfected with a plasmid expressing either WT-CFTR or F508del-CFTR. After 24 hours, the cells were treated with DMSO or 100 nM TAK-981 for 24 hours. CFTR expression was analyzed by immunoblotting, with calnexin as the loading control.

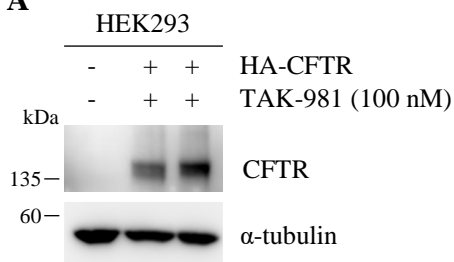
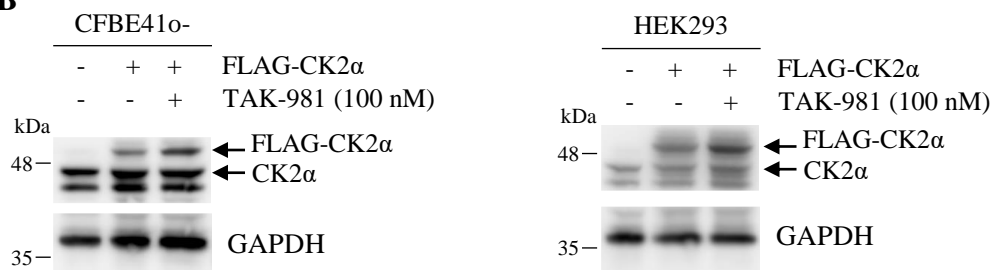
A**B**

Figure S3. Effect of TAK-981 on transiently expressed proteins in CFBE41o- and HEK293 cells.

(A) HEK293 cells were transfected with a plasmid expressing WT-CFTR. After 24 hours, the cells were treated with 100 nM TAK-981 for 24 hours. CFTR expression was analyzed by immunoblotting, with α -tubulin as the loading control. (B) CFBE41o- or HEK293 cells were transfected with a plasmid expressing FLAG-CK2 α . After 24 hours, the cells were treated with 100 nM TAK-981 for 24 hours. CK2 α expression was analyzed by immunoblotting, with GAPDH as the loading control.

The CK2 α antibody identified both the endogenous CK2 α (~45 kDa, upper band) and the endogenous CK2 α ' (~42 kDa, lower band). The FLAG-CK2 α band migrated slower than the endogenous protein due to the presence of the tag (FLAG) and is recognized as a separate third band.