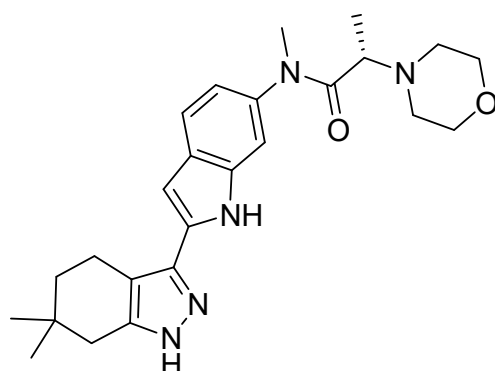


Article

Possible Therapeutic Strategy Involving the Purine Synthesis Pathway Regulated by ITK in Tongue Squamous Cell Carcinoma

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Chemical Formula: C₂₅H₃₃N₅O₂

Molecular Weight: 435.56

Figure S1. Chemical formula of the small compound used as an interleukin-2-inducible T-cell kinase (ITK) inhibitor. Chemical formula of the ITK inhibitor (Cmpd-5).

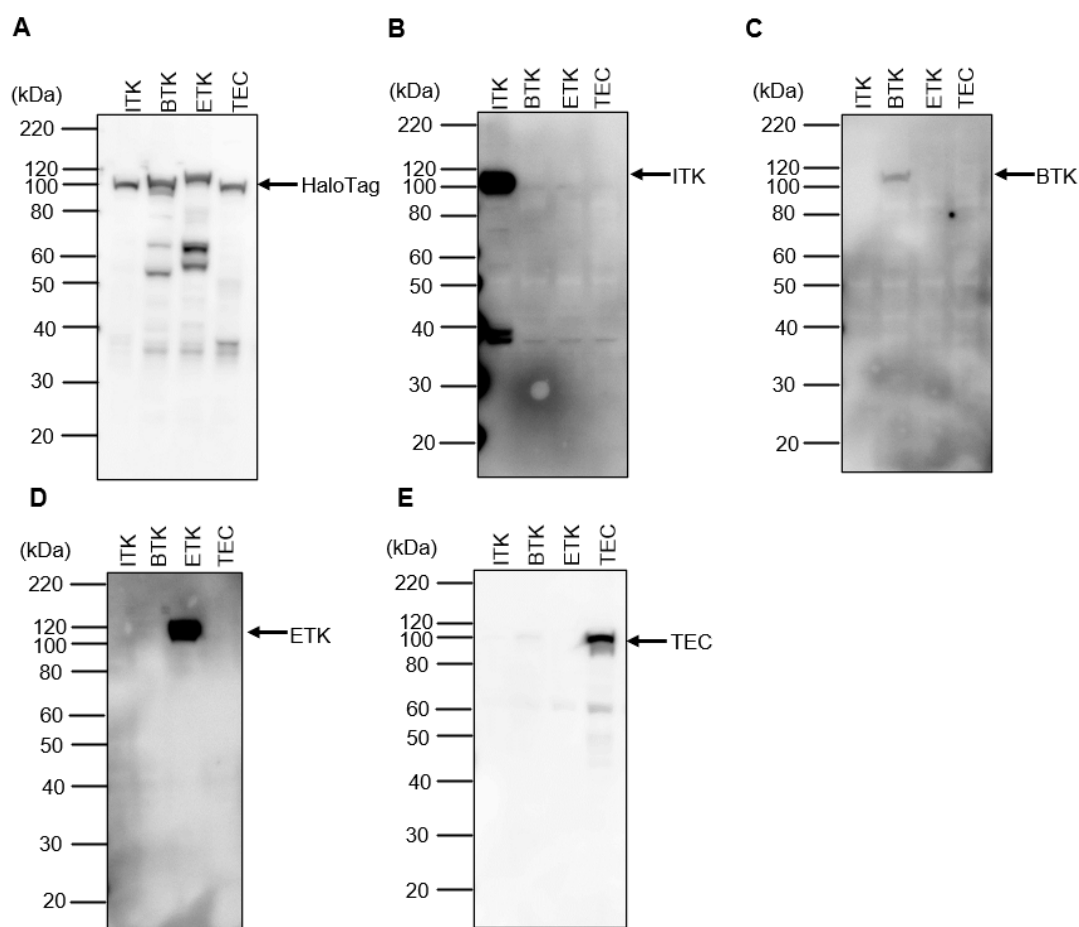


Figure S2. Specificity of the anti-interleukin-2-inducible T-cell kinase (ITK) antibody. (A–E) Western blot analysis of HaloTag (A), ITK (B), BTK, (C) ETK (D), and TEC (E) in HaloTag-fused ITK-, BTK-, ETK-, and Table 3. Phosphotyrosine proteomic analysis of ITK-expressing cells and mock control cells treated with DMSO or ITK inhibitor.

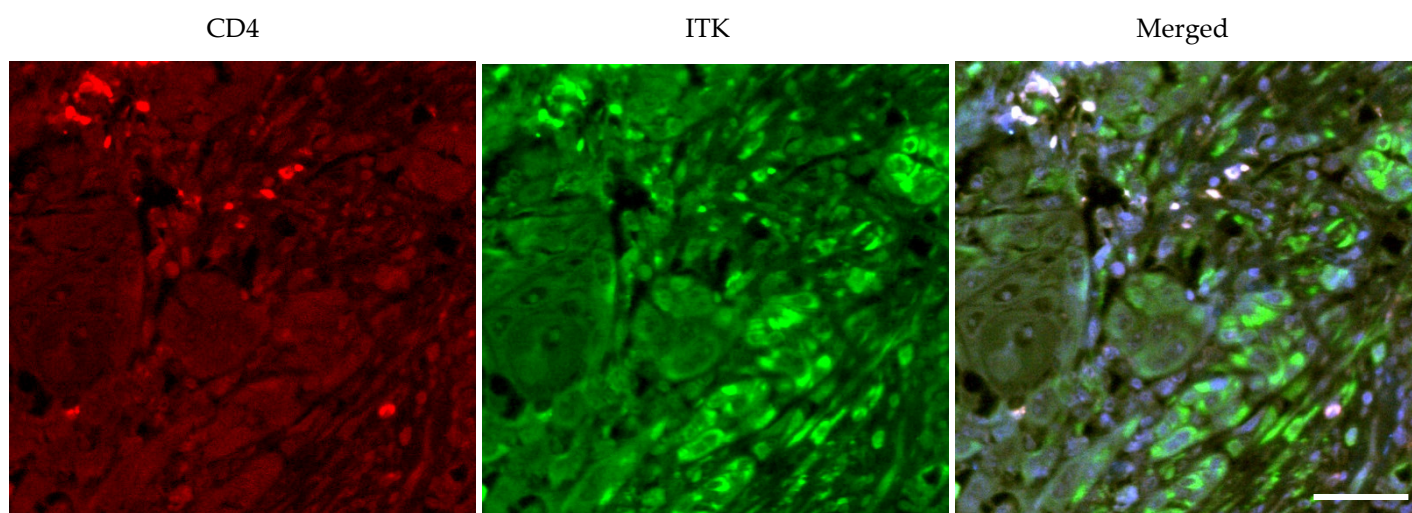


Figure S3. Immunofluorescence cytochemistry of T cells (arrows) in TSCC tissue samples stained with anti-interleukin-2-inducible T-cell kinase (ITK) (green) and anti-CD4 (red) antibodies.

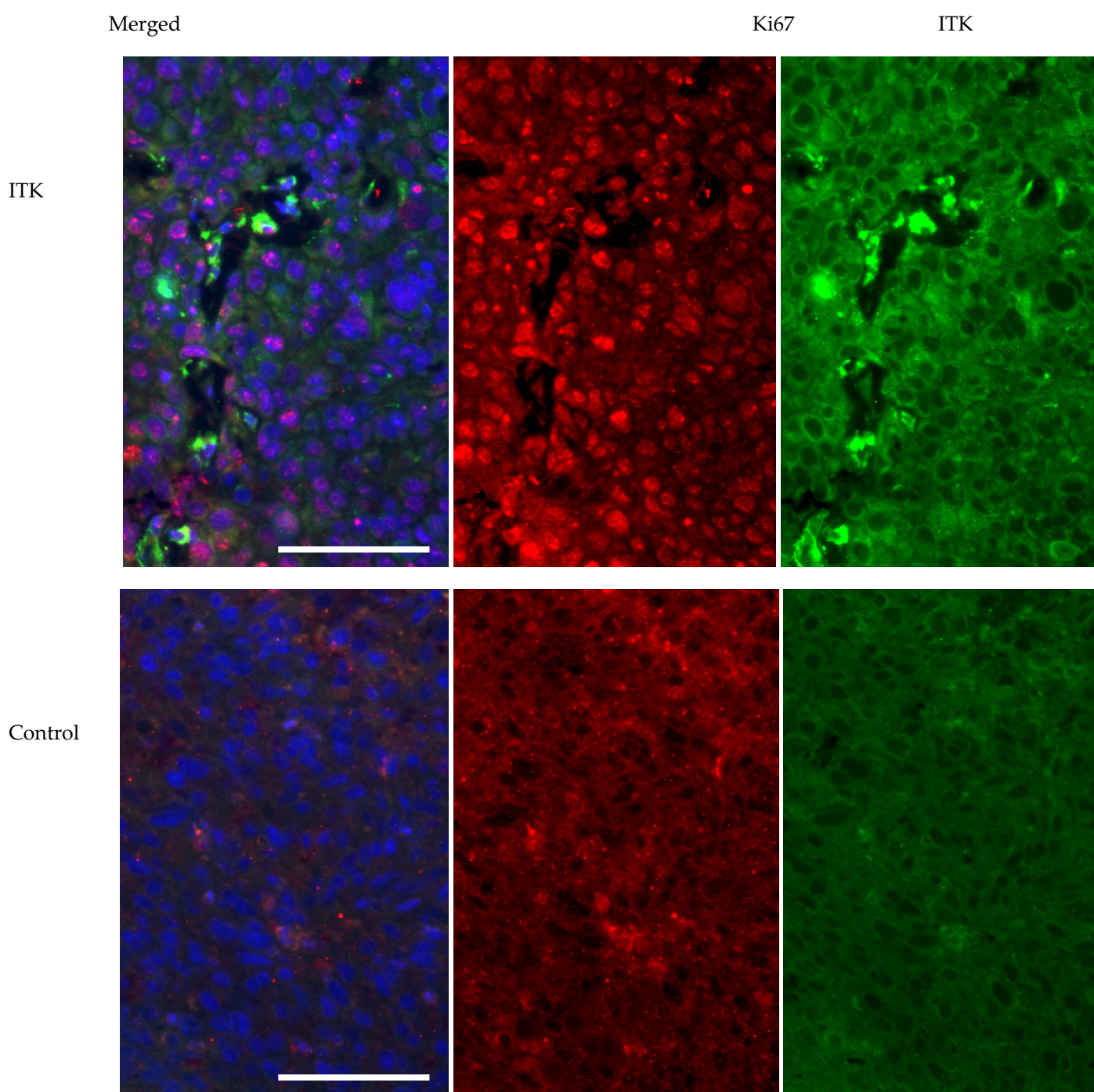


Figure S4. Immunofluorescence cytochemistry of SAS tumor cells of in vivo models stained with anti-interleukin-2-inducible T-cell kinase (ITK) (green) and anti-Ki67 (red) antibodies.

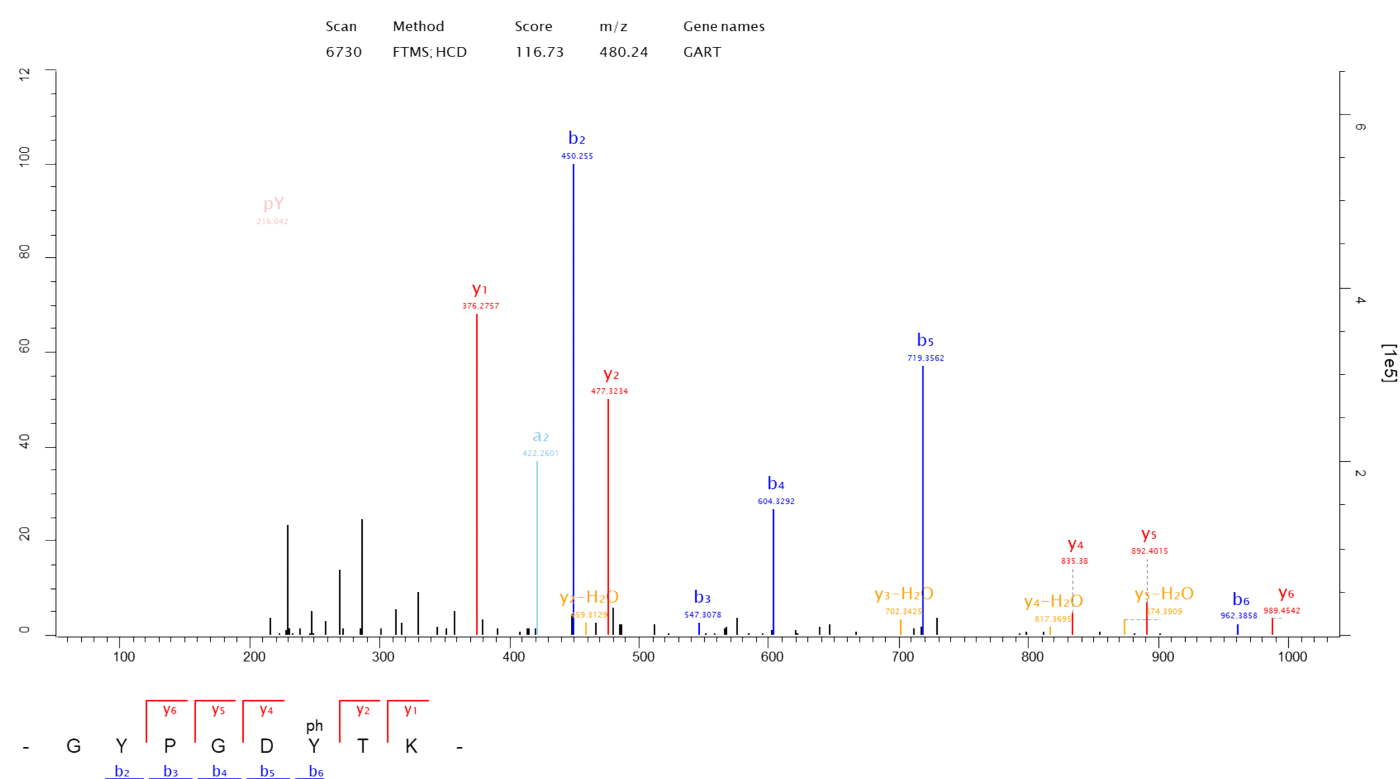


Figure S5. Tandem mass spectra representing phosphorylated residues in trifunctional purine bi-synthetic protein adenosine-3 (GART). Spectra of phosphopeptides are color coded for matched b- and y-ions in blue and red, respectively. Tandem mass spectrum identifying pY348 of GART.

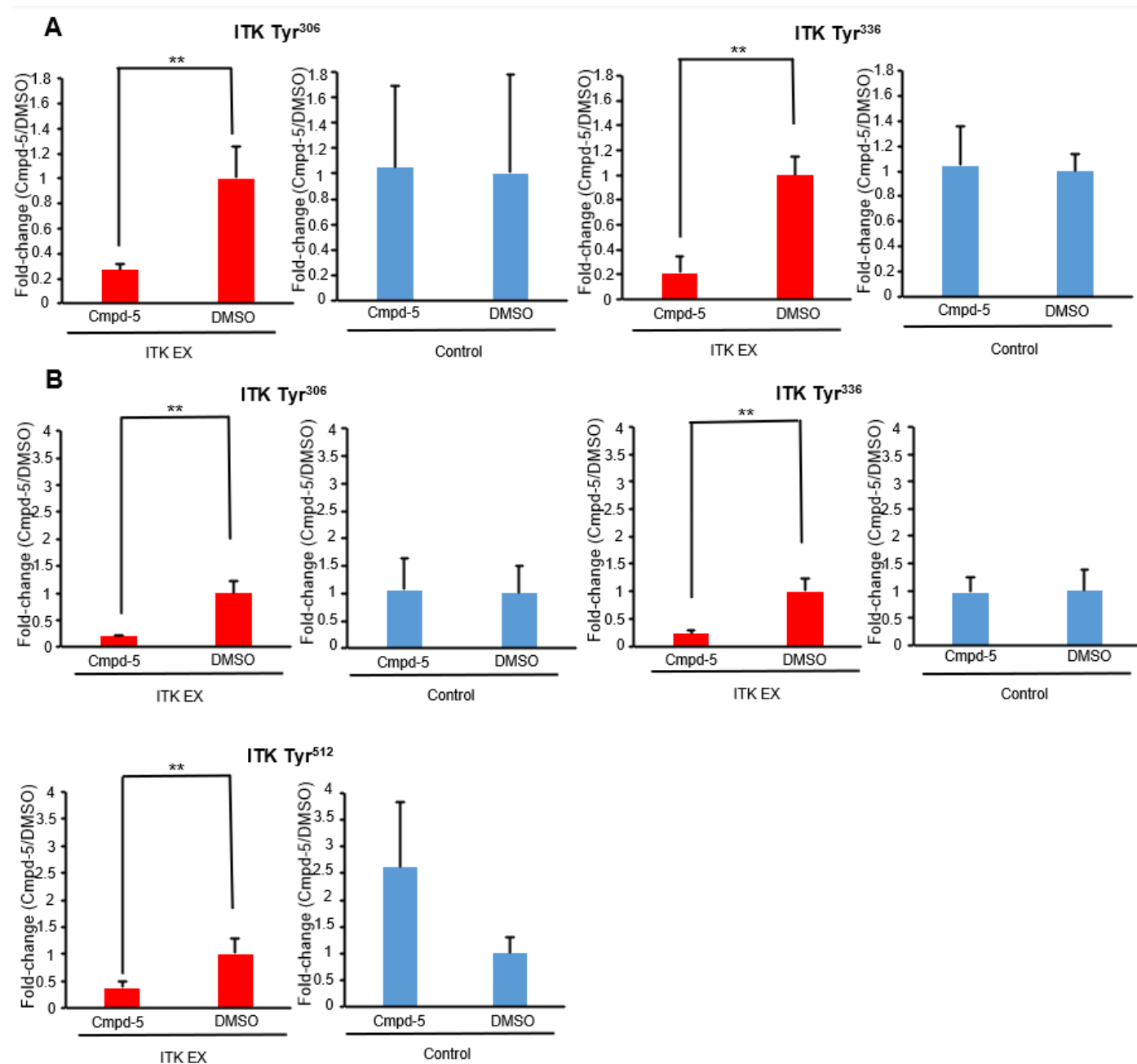


Figure S6. Phosphotyrosine proteomic analysis of interleukin-2-inducible T-cell kinase (ITK)-expressing cells and mock control cells treated with DMSO or ITK inhibitor. (A and B) ITK-expressing cells and mock control cells were treated with DMSO or ITK inhibitor (Cmpd-5) for 24 hours, and then phosphotyrosine residues on ITK peptides were analyzed (A: SAS cells; B: KOSC2 cells). ** $P < 0.05$ (Student's t-test).