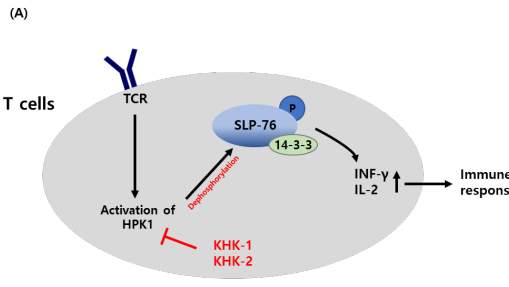
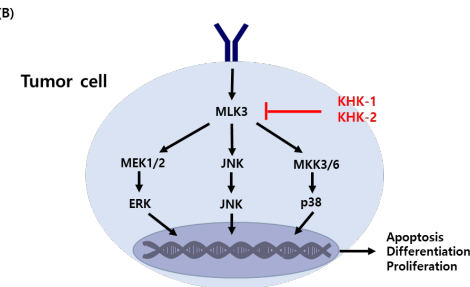


Development of a novel HPK1/MLK3 dual inhibitor, an immuno-oncology agent for MLK3-specific solid tumors

MD Biolab Co.,Ltd
 MD Biolab Corp.

ONCOLOGY	Lead
Product Type	Immuno-oncology drugs
Indication	Solid Tumors (renal cell carcinoma, gastric cancer, liver cancer etc.)
Target	HPK1/MLK3
MoA(Mechanism of Action)	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>(A)</p>  </div> <div style="text-align: center;"> <p>(B)</p>  </div> </div> <p>The regulatory effect of HPK1 in T cell and role of MLK3 in cancers. (A) KHK-1 and KHK-2 block the phosphorylation of downstream SLP-76 by inhibiting the activity of HPK1. Thus, increased T cell proliferation and immune response result in increased production of INF-γ and IL-2. (B) KHK-1 and KHK-2 suppress the proliferation and differentiation of tumor cells and increase the apoptosis via phosphorylation of ERK, JNK, p38.</p>
Competitiveness	<ul style="list-style-type: none"> Discovery of the new oral small-molecular Immune-oncology agent. <ul style="list-style-type: none"> Improved patient compliance through oral administration Combination therapy with current immune checkpoint inhibitors for effective cancer treatment Good physicochemical and pharmacokinetic profiles Discovery of the HPK1/MLK3 dual inhibitor <ul style="list-style-type: none"> Showing a robust anti-tumor immunity(HPK-1) and inhibitory effects on tumor cell proliferation(MLK-3) by dual targeting
Development Stage	Lead
Route of Administration	Oral Administration