Supplementary Information

Supplementary Tables

Supplementary Table S1. Anti-cancer peptide candidates.

Peptide	Sequence
P01	SerGluThrAlaProAlaAlaProAlaAlaProAlaProAlaGluLys
P02	AlaGluGluTyrGluPheLeuThrProMetGluGluAlaProLys
P03	HisValPheGlyGluSerAspGluLeuIleGlyGlnLys
P04	IleGlyGluHisThrProSerAlaLeuAlaIleMetGluAsnAlaAsnValLeuAlaArg
P05	AlaAspAspGlyArgProPheProGlnValIleLys
P06	GlyAlaGlyThrGlyGlyLeuGlyLeuAlaValGluGlyProSerGluAlaLys
P07	ValGluProGlyLeuGlyAlaAspAsnSerValValArg
P08	AsnSerAsnLeuValGlyAlaAlaHisGluGluLeuGlnGlnSerArg
P09	AlaAlaGlyThrLeuTyrThrTyrProGluAsnTrpArg
P10	PheAlaAlaAlaThrGlyAlaThrProIleAlaGlyArg

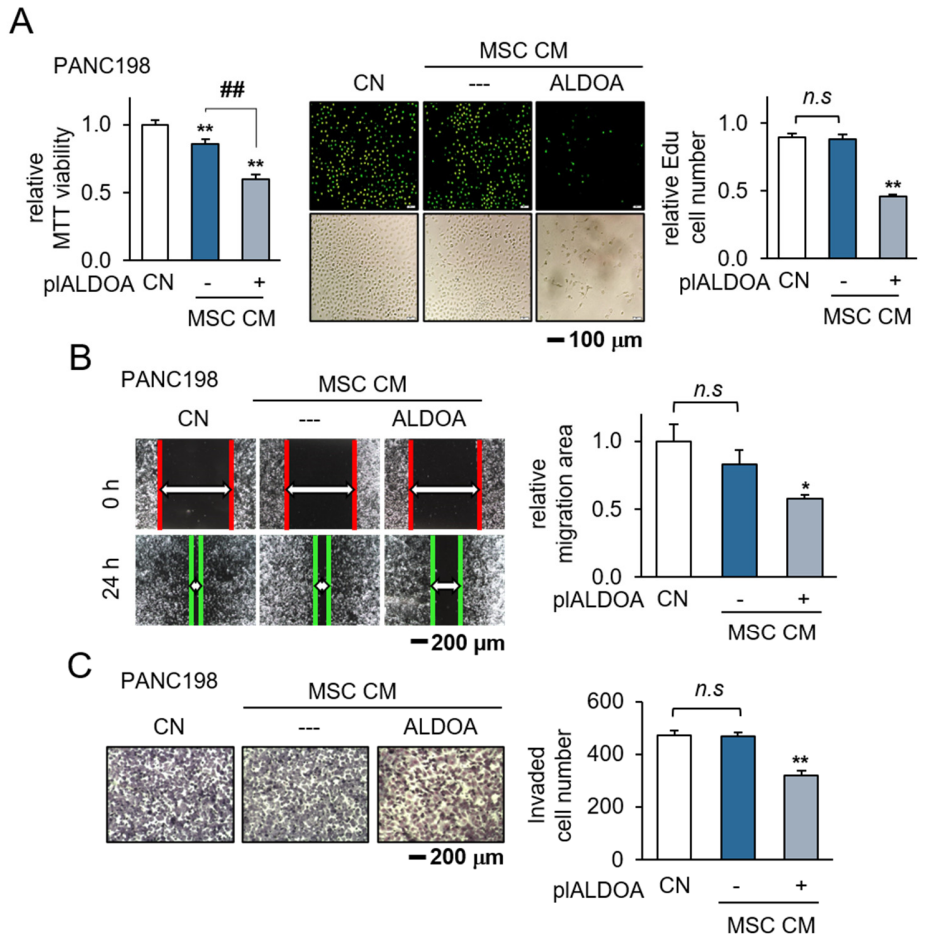
Supplementary Table S2. MTT-based viability of 4 pancreatic cancer cell lines in response to 10 anticancer peptide candidates at 25 mg/mL.

Cell line	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10
PAN198	0.92	0.94	0.96	0.79	0.87	0.98	0.95	1.03	1.01	0.98
PANC1	0.97	0.95	0.97	0.76	0.86	0.94	0.92	0.95	0.89	0.91
PA03C	0.97	0.95	0.91	0.85	0.85	1.00	0.94	0.95	0.94	0.97
ASPC1	0.93	0.89	0.98	0.81	0.87	0.97	0.96	1.04	1.02	0.99
Mean	0.95	0.93	0.95	0.80	0.86	0.97	0.94	0.99	0.97	0.96

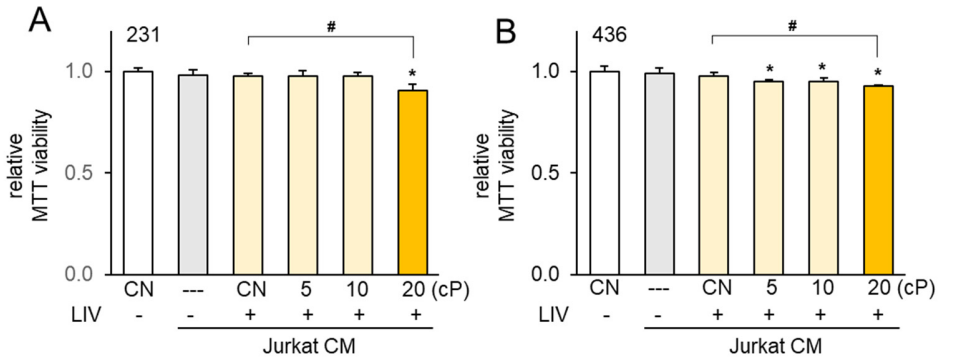
Supplementary Table S3. Hydrogen-bonding interaction in EGFR-P04 complex.

EGFR Receptor Residue	P04 Ligand Residue	Interaction Consistituents	Distance (Å)	Type
B:ASN210	P04:LEU171	B:ASN210:N - P05:LEU171:O	3.0174	Conventional
B:CYS207	P04:ARG173	P04:ARG173:NH1 - B:CYS207:SG	2.8805	Conventional
A:SER196	P04:GLU166	A:SER196:CB - P05:GLU166:O	2.6857	Carbon
B:THR249	P04:GLY155	P04:GLY155:CA - B:THR249:OG1	3.0735	Carbon

Supplementary Figure



Supplementary Figure S1. Generation of iTSCs by overexpressing ALDOA in MSCs. CN = control, pl = plasmid transfection, MSC = mesenchymal stem cell, and CM = conditioned medium. The single and double asterisks indicate $p < 0.05$ and 0.01, respectively. (A-C) Reduction in MTT-based viability, EdU-based proliferation, scratch-based motility, and transwell invasion, respectively, in PANC198 cells, by ALDOA-overexpressing MSC-derived conditioned medium.



Supplementary Figure S2. Generation of iTSCs from LIV-treated Jurkat cells at different viscosity. CN = control, CM = conditioned medium, and cp = centipoise (viscosity unit). The single asterisk and hashtag indicate $p < 0.05$ to CN and LIV CN, respectively. (A&B) Reduction in MTT-based viability in MDA-MB-231 and MDA-MB-436 cells by LIV-treated Jurkat-derived CM.