

Supplementary table 1: Organoid medium composition for human gastric organoids.

ROCK inhibitor was added only after the initial seeding and passaging of the organoids. For basal medium (AD++), Advanced Dulbecco's modified Eagle medium (DMEM)/F12 supplemented with 10 mmol/l HEPES and GlutaMAX 1 X was used. CM: conditioned medium; inh.: inhibitor; N-Ac: N-acetylcysteine; EGF: epidermal growth factor; FGF-10: fibroblast growth factor-10; TGF- β : transforming growth factor- β ; ROCK: Rho-associated coiled-coil forming protein serine/threonine kinase.

Reagent	Supplier	Catalog number	
Organoid maintenance			
Matrigel	Corning	356231	
Basal medium (AD++)			
HEPES	Invitrogen	15630-056	
GlutaMAX-I	Invitrogen	35050-079	
Advanced DMEM/F12 (AD)	Invitrogen	12634-028	
Medium components			
Reagent	Supplier	Catalog number	Final concentration
AD++			30%
WNT CM	Stable cell line		50%
R-Spondin CM	Stable cell line		10%
Noggin CM	Stable cell line		10%
Primocin	Invivogen	Ant-pm-1	100 μ g/ml
B27	Invitrogen	12587-010	1 X
N-Ac	Sigma-Aldrich	A9165-5G	1.25 mM
EGF	Peptotech	AF-100-15	50 ng/ml
FGF-10	Peptotech	100-26	100 ng/ml
Gastrin-I	Tocris	3006	1 nM
TGF- β inh. (A-83-01)	Tocris	2939	2 μ M
ROCK-inh (Y-27632)	AbMole Bioscience	M1817	10 μ M