

# Summation of GI hormone

Hormone	Source	Target	Action
Cholecystokinin	I cell in duo, jeju, neurons in ileum, colon	Pancrease gallbladder	↑enz secretion ↑contraction
GIP	K cell in duo, jeuju	pancrease	↓fluid absorp ↑insulin release
Gastrin	G cell in antrum, duo	Parietal cell	↑acid secretion ↑motility
GRP	Vagus nerve	G cell	Gastrin release

Hormone	Source	Target	Action
Glucagon	Alpha cell in pancreatic islet	liver	↑glycogenolysis ↑gluconeogenesis
Guanylin	Ileum, colon	Small and large intestine	↑fluid secretion
Motilin	EC cell, Mo cell in upper GI tract	Eso sphincter Stomach, duo	Smooth muscle contraction
Neurotensin	Neurons, ECC in ileum	Intestinal smooth muscle	↓ GI motility ↑ blood flow

Hormone	Source	Target	Action
Peptide YY	L cell in ileum, colon	Stomach	↓ vagal mediated acid secretion
		Pancreas	↓ enz and fluid secretion
Secretin	S cell in small intestine	Pancreas	↑HCO <sub>3</sub> and fluid secretion by pancreatic ducts
		Stomach	↓ gastric a secretion
somatostatin	D cell in stomach, duodenum, pancreatic islet	Stomach	↓ gastrin release
		Intestine	↑fluid absorption
		Pancreas	↑smm contraction
		Liver	↓endo/exocrine secretion
			↓bile flow

Hormone	Source	Target	Action
Substance P	Enteric neurons	Intestine Pancrease	↑GI motility ↓HCO <sub>3</sub> secretion
VIP	ENS neurons	Small intestine  Pancrease	smm contraction ↑SB secretion ↑pancreatic secretion