

Table 15.1. A functional classification of endocrine cells in the human gastrointestinal tract. (After Buchan and Polak (1980).)

Site	Cell type	Product	Granule diameter (nm)	Characteristics
Pancreas	I	Insulin		Polymorphic
	PG	Glucagon		Grimelius +ve halo
	SOM	Somatostatin	260-370	Relatively osmiophilic
	PP	Pancreatic polypeptide	150-170	
Stomach	SOM	Somatostatin	260-370	Relatively osmiophilic
	AG	Antral gastrin	200-370	Some electron-lucent
Small intestine (upper)	S	Secretin	240	Irregular, electron-dense
	SOM	Somatostatin	260-370	Relatively osmiophilic
	GIP	Gastric inhibitory polypeptide	350	Round to irregular, dense osmiophilic core
	CCK	Cholecystokinin	330	Round, electron-dense
Small intestine (lower)	N	Neurotensin	300	Round, electron-dense
	EG	Enteroglucagon	210	Round, electron-dense
	SOM	Somatostatin	260-370	Relatively osmiophilic
Large intestine	EG	Enteroglucagon	210	Round, electron-dense
	SOM	Somatostatin	260-370	Relatively osmiophilic