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# Avexitide

National Cancer Institute

## Source

National Cancer Institute. *Avexitide*. NCI Thesaurus. Code C133230.

A truncated form of the glucagon-like peptide 1 receptor (GLP-1R) agonist exendin-4 peptide, with GLP-1 receptor (GLP-1R) antagonistic and GLP-1R-mediated signaling inhibiting activities. Upon administration, avexitide competitively binds to and inhibits the activity of GLP-1R, thereby inhibiting GLP-1/GLP-1R-mediated signaling. This antagonizes the glucagonostatic and the insulinotropic effects of GLP-1. By abrogating GLP-1-mediated stimulation of insulin release and reduction of glucagon secretion after food intake, exendin 9-39 may be used to help study the potential effects of overproduction of GLP-1 on food intake, weight loss and glucose levels. GLP-1R, located on pancreatic beta cells, is overexpressed on certain tumor cell types. GLP-1 is a gastrointestinal (GI) and insulinotropic hormone that is released after a meal and plays a key role in the regulation of blood glucose levels.