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Recombinant *Saccharomyces Cerevisia*-CEA(610D)-Expressing Vaccine GI-6207

National Cancer Institute

Source

National Cancer Institute. *Recombinant Saccharomyces Cerevisia-CEA(610D)-Expressing Vaccine GI-6207*. NCI Thesaurus. Code C82371.

A whole, heat-killed, recombinant *Saccharomyces cerevisiae* yeast-based vaccine genetically altered to express the carcinoembryonic antigen (CEA) peptide 610D with potential immunostimulating and antineoplastic activities. Upon administration, recombinant *Saccharomyces cerevisia*-CEA(610D) vaccine GI-6207 may stimulate a host cytotoxic T-lymphocyte (CTL) response against CEA-expressing tumor cells, which may result in tumor cell lysis. CEA, a tumor associated antigen, is overexpressed on a wide variety of human cancer cells including colorectal, gastric, lung, breast and pancreatic cancer cells. CEA 610D encodes for 9 amino acids (605-613) in which aspartate is substituted for asparagine at position 610 (610D) in order to strengthen the induction of the CTL response against CEA-expressing tumor cells.