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PBCAR3/pIRS2-Phosphopeptide-tetanus Peptide Vaccine

National Cancer Institute

Source

National Cancer Institute. *pBCAR3/pIRS2-Phosphopeptide-tetanus Peptide Vaccine*. NCI Thesaurus. Code C107168.

A vaccine composed of phosphorylated peptides from the tumor associated antigens breast cancer anti-estrogen resistance-3 (BCAR3) and insulin receptor substrate-2 (IRS2) and a tetanus-derived peptide, with potential immunomodulating and antineoplastic activities. Upon administration of pBCAR3/pIRS2 phosphopeptide-tetanus peptide vaccine, the pBCAR3/pIRS2 phosphopeptide may stimulate the immune system to mount a cytotoxic T-lymphocyte (CTL) response against tumor cells expressing either phosphopeptide. The tetanus peptide serves as an immunoadjuvant and induces a helper T-cell response which may help stimulate an immune response against pBCAR3 and pIRS2-expressing melanoma tumor cells. BCAR3 and IRS2 are upregulated in a variety of cancer cells.