

Diphtheria-Tetanus-Acellular Pertussis-Inactivated Poliomyelitis-Haemophilus influenzae Type B Vaccine

National Cancer Institute

Source

National Cancer Institute. *Diphtheria-Tetanus-Acellular Pertussis-Inactivated Poliomyelitis-Haemophilus influenzae Type B Vaccine*. NCI Thesaurus. Code C122399.

A vaccine consisting of detoxified diphtheria toxoid (D), detoxified tetanus toxoid (T), acellular pertussis (aP) antigens, inactivated poliovirus (IPV) types 1, 2 and 3, and Haemophilus influenzae type b (Hib) capsular polysaccharide (polyribosylribitol phosphate; PRP) covalently bound to tetanus protein, suspended in water for injection and with active immunizing activity against diphtheria, tetanus, pertussis, poliomyelitis and H. influenzae type b. The five purified pertussis antigens in this vaccine are pertussis toxin (PT), filamentous hemagglutinin (FHA), pertactin (PRN) and fimbriae types 2 and 3 (FIM). Upon intramuscular injection of the diphtheria-tetanus-acellular pertussis-inactivated poliomyelitis-Haemophilus influenzae type b vaccine (DT aP-IPV-Hib), this vaccine activates the immune system to develop antibodies against diphtheria toxin, tetanus toxin, B. pertussis antigens, polioviruses and Hib, thereby providing active immunization against these diseases. The diphtheria and tetanus toxoids and pertussis antigens (inactivated PT, FHA, PRN and FIM) are adsorbed separately onto aluminum phosphate and then combined with IPV and PRP.