Haemophilus influenzae Type B Conjugate Vaccine





Section 7	Biological Product Information	Standard # 07.220		
Created and approved by	Provincial Immunization Program Standards and Quality			
Approval date	March 1, 2013	Published	August 1, 2025	

	Act-HIB
Manufacturer	Sanofi Pasteur Ltd.
Classification	Inactivated: Conjugate
Indications for Provincially Funded Vaccine	Children 2 months up to and including 59 months of age: Who require single antigen Haemophilus influenzae type b (Hib) vaccine for initiating or completing a primary series.
	 Note: Routinely given as a component in the combined DTaP-IPV-Hib-HB or DTaP-IPV-Hib vaccine at the 2, 4, 6 and 18 month immunization appointments. For immunization schedules for solid organ transplant (SOT) candidates or recipients see Standard for Immunization of Transplant Candidates and Recipients.
	 Refer to the appropriate combined vaccine biological page for further detail. Individuals 5 years of age and older including adults regardless of prior history of Haemophilus influenzae type b (Hib) immunization, with specified chronic conditions who do not require antigens contained in the combined vaccines:
	 Asplenia or hyposplenism (including sickle cell disease) Acquired complement deficiency (for example, due to receipt of the terminal complement inhibitor eculizumab [Soliris])
	Note: Individuals prescribed terminal complement inhibitors such as eculizumab (Soliris) are at increased risk of serious infections, especially with encapsulated bacteria, such as Haemophilus influenza type b, therefore, they should receive Hib vaccine at least two weeks before receiving the first dose of if possible.
	 Cochlear implant candidates and recipients Congenital (primary) immunodeficiency involving any part of the immune system including persons with partial T-lymphocyte defects (for example, DiGeorge syndrome, Wiskott-Aldrich syndrome, ataxia-telangiectasia, hyper IgM syndrome, hyper IgE syndrome, X-linked lymphoproliferative disease, familial predisposition to hemophagocytic lymphohistiocytosis). Includes B cell deficiency, T cell and combined deficiency, complement deficiency, phagocytic and neutrophil disorders
	 Hematopoietic stem cell transplant (HSCT) recipients. See <u>Standard for Immunization of Transplant Candidates and Recipients</u> HIV infection Malignant hematologic disorders (for example, leukemia, lymphomas, blood dyscrasias or other malignant neoplasms affecting the bone marrow or lymphatic systems). SOT candidates or recipients. See <u>Standard for Immunization of Transplant Candidates and Recipients</u>.

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Schedule	Children 2 months up to and inc	Children 2 months up to and including 59 months of age:				
	Recommended Immunization	Recommended Immunization Schedule for Single Antigen Hib Vaccine				
	Age of Child Starting Immunization	Primary Series (separate doses by 4 to 8 weeks)	Reinforcing Dose (minimum 8 weeks from previous dose)			
	2 months up to and including 6 months	3 doses	At 18 months			
	7 months up to and including 11 months	2 doses	At 18 months			
	12 months up to and including 14 months	1 dose	At 18 months of age or older			
	15 months up to and including 59 months	1 dose	None			
	Hib vaccine at the 2, 4, 6 and diphtheria, tetanus, acellular vaccine biological page for further reinforcing dose of Hib-control provided that at least 8 weeks. To provide complete protection of age or older regardless of the require fewer doses of Hib as consideration. See Standard for Immunization recommended schedule for Hindividuals 5 years of age and of history of Haemophilus influence. 1 dose Note:	 See <u>Standard for Immunization of Transplant Candidates and Recipients</u> for the recommended schedule for HSCT and SOT clients. Individuals 5 years of age and older with specified chronic conditions regardless of prior history of <i>Haemophilus influenzae</i> type b (Hib) immunization: 1 dose Note: See <u>Standard for Immunization of Transplant Candidates and Recipients</u> for the 				
Dose	0.5 mL					
Route	IM					
Contraindications/ Precautions	 Contraindications: Known severe hypersensitivity to any component of Hib vaccine Anaphylactic or other severe allergic reaction to a previous dose of Hib-containing vaccine Precautions: Capsular polysaccharide antigen can be detected in the urine of individuals who have been immunized for up to 2 weeks following immunization with conjugate vaccines. This phenomenon should not be confused with invasive Hib infections. Hib infection does not always confer immunity. Immunize individuals who have recovered from Hib as appropriate for age and risk factors. Do not give Hib vaccine to a child younger than 6 weeks of age. Data suggest that Hib 					
		ore 6 weeks of age may induce i				

	Act-HIB
Possible Reactions	 Common: Pain, redness, swelling or induration. Fever, irritability, drowsiness, prolonged or abnormal crying, anorexia, diarrhea and vomiting. Rare: Anaphylaxis, allergic reaction As with any immunization, unexpected or unusual side effects can occur. Refer to the product monograph for more detailed information.
Pregnancy	 Consult with the MOH/designate. Adequate data is not available for the use of Hib vaccine during pregnancy. Not routinely recommended in Alberta for pregnant people. Consult with the MOH/designate if the individual is at high risk of disease. MOH will make an individual recommendation based on risk of disease versus benefit of vaccine.
Lactation	 May use for people who are lactating and feeding their milk to infants or children. It is not known if Hib vaccine or corresponding antibodies are excreted in breast milk.
Composition	 Each 0.5 mL of reconstituted vaccine contains: 10 mcg purified polyribosylribitol phosphate capsular polysaccharide (PRP) of Haemophilus influenzae type b 18-30 mcg tetanus protein 0.6 mg tris (hydroxymethyl) aminomethane 42.5 mg sucrose 2mg sodium chloride Diluent: 0.4% saline solution
Blood/Blood Products	Does not contain any human blood/blood products.
Bovine/Porcine Products	Does not contain bovine or porcine products.
Latex	The stoppers of the vials containing Act-Hib and the diluent do not contain latex.
Administration with Other Products	 May be given at the same time as other inactivated and live vaccines. Use a separate needle and syringe for each vaccine. The same limb may be used if necessary but use different sites on the limb.
Preparation	 Reconstitute the vaccine using only the diluent supplied. Slowly inject the 0.5 mL of diluent into the freeze-dried vaccine. Withdraw the entire reconstituted content and inject the entire volume (about 0.5 mL).
Appearance	Clear colourless solution when reconstituted with supplied diluent.
Storage	 Store at +2°C to +8°C Do not freeze Do not use beyond the labeled expiry date Store in original packaging to protect from light.
Vaccine Code	Hib
Antigen Code	Hib
Licensed for	Individuals 2 months of age and older.
Notes	 1987July: Hib (PRP) introduced into routine immunization schedule for 2 to 3 year olds (single antigen). 1988: Hib (PRPD) introduced into routine immunization schedule for 18 month olds. 1994 August: Hib (PRPT) introduced into routine immunization schedule for 2 month olds in diphtheria, tetanus, pertussis, polio and Hib combination vaccine.

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	 2015 February: Act-Hib/Hiberix indicated for individual 5 years and older regardless of previous Hib immunization with specific chronic conditions. 	
	• 2025 August 1: Removed HIBERIX as this product no longer available in Canada.	
Related Resources	Haemophilus influenzae type b Conjugate Vaccine Information Sheet	

References

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