```
module alu in contrl(clk,in a,in b,data a,data b,alu sel,imm);
    input[15:0] in a, in b;
    input[7:0] imm;
    input alu sel,clk;
    output[15:0] data_a;
    output [15:0] data b;
(* DONT TOUCH= "1" *) reg[15:0] data a;
(* DONT TOUCH= "1" *) reg [15:0] data b;
    always @(posedge clk)
        begin
            if(alu sel)
                begin
                    data a <= in a;
                    data b <= imm;
                end
            else
                begin
                    data a <= in a;
                    data b <= in b;
                end
        end
endmodule
```