

ABSTRACT

IMPROVED PROCESSES FOR MAKING HYDRAZIDES

A method is disclosed for preparing hydrazides from hydrazine and an acyl chloride which comprises the steps of (a) preparing a stirred substantially uniform slurry comprising hydrazine and an inert solvent at low temperature; and (b) adding an acyl chloride continuously to said slurry. The method avoids or limits production of undesired bis-hydrazide by-products. The method is used to prepare 3-methyl-3-mercaptoputanoic acid hydrazide, a molecule used to link calicheamicin to a monoclonal antibody.

FIGURE 1