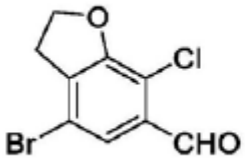
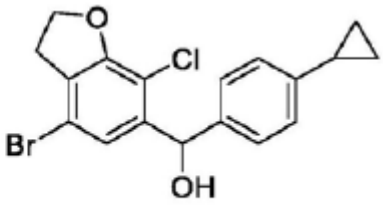
SYNTHESIS METHOD FOR PREPARING SGLT INHIBITOR INTERMEDIATE

ABSTRACT

A method for preparing compound 1 and compound 2 having a structure as shown below, the method comprises the following steps:



1



2

1) subjecting 2,3-dihydrobenzofuran-7-amine as a raw material to a selective -dibromination with a brominating reagent to obtain 4,6-dibromo-2,3-dihydrobenzofuran-7-amine;

2) subjecting 4,6-dibromo-2,3-dihydrobenzofuran-7-amine obtained in the step 1) to Sandmeyer reaction for chlorination to obtain 4,6-dibromo -7-chloro-2,3-dihydrobenzofuran;

3-1) selectively debrominating from 4,6-dibromo-7-chloro-2,3-dihydrobenzofuran obtained in the step 2) using a strong base, and then adding a formylation reagent to obtain compound 1;

3-2) selectively debrominating from 4,6-dibromo-7-chloro-2,3-dihydrobenzofuran obtained in the step 2) using a strong base, and then reacting with 4-cyclopropyl benzaldehyde to obtain compound 2.