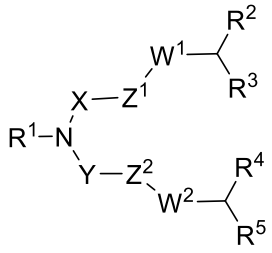
ABSTRACT

The present disclosure provides a nitrogen-containing chain compound, a preparation method, a composition comprising the same, and use. The present disclosure specifically provides a compound I or a pharmaceutically acceptable salt thereof. An LNP formulation prepared with the nitrogen-containing chain compound of the present disclosure has relatively uniform nanoparticle size, higher encapsulation efficiency, and higher expression activity *in vivo*.



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