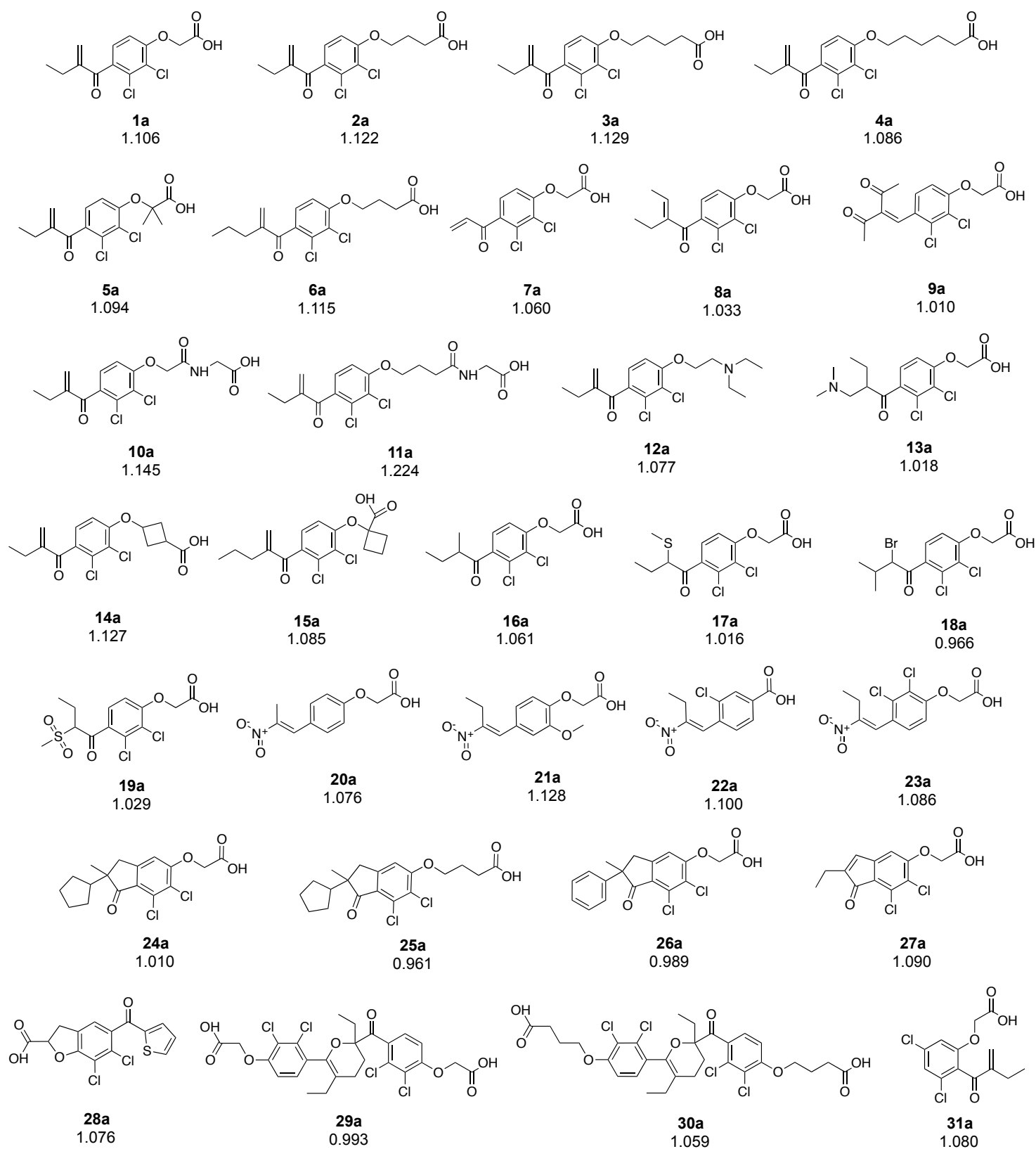
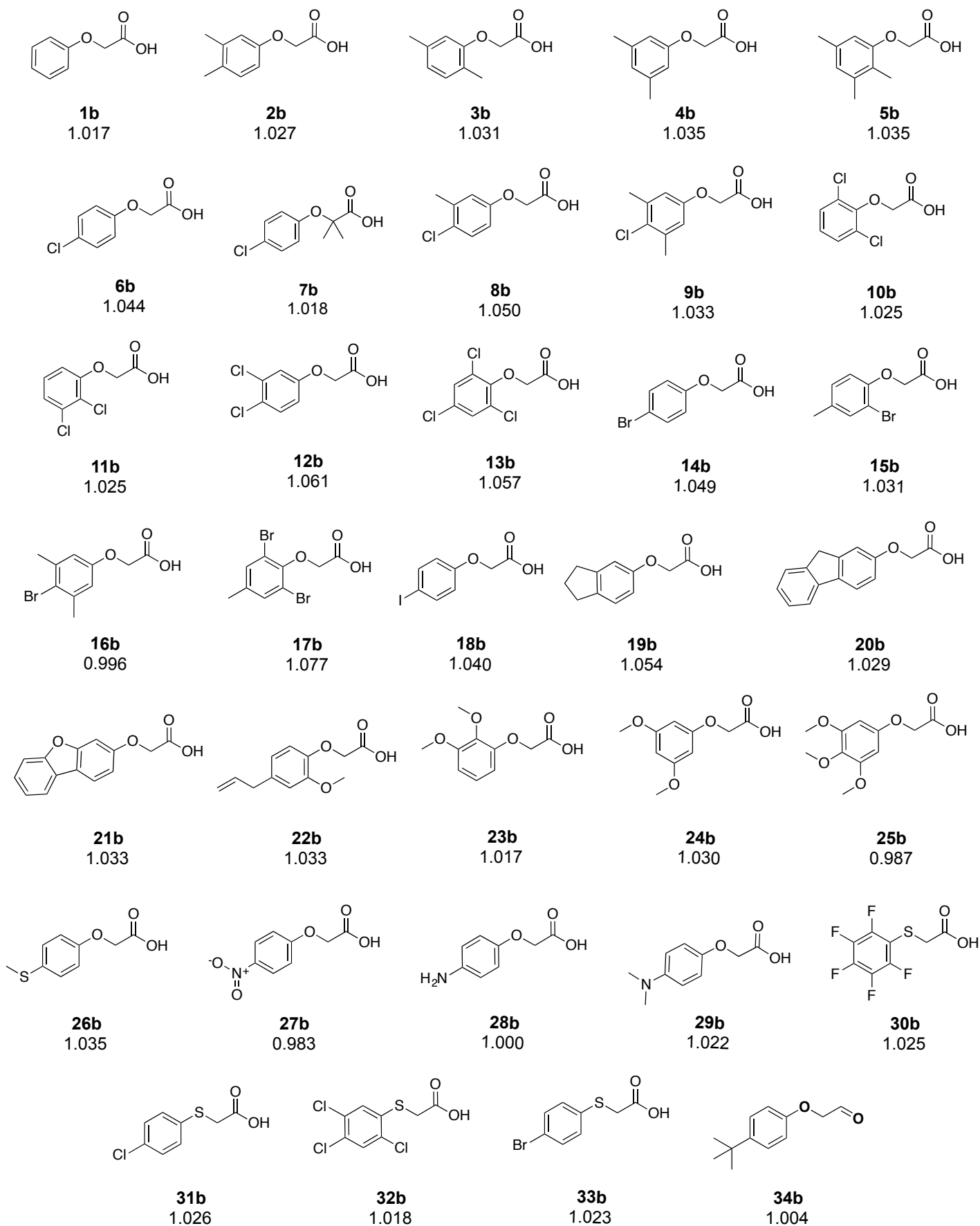


Ethacrynic acid



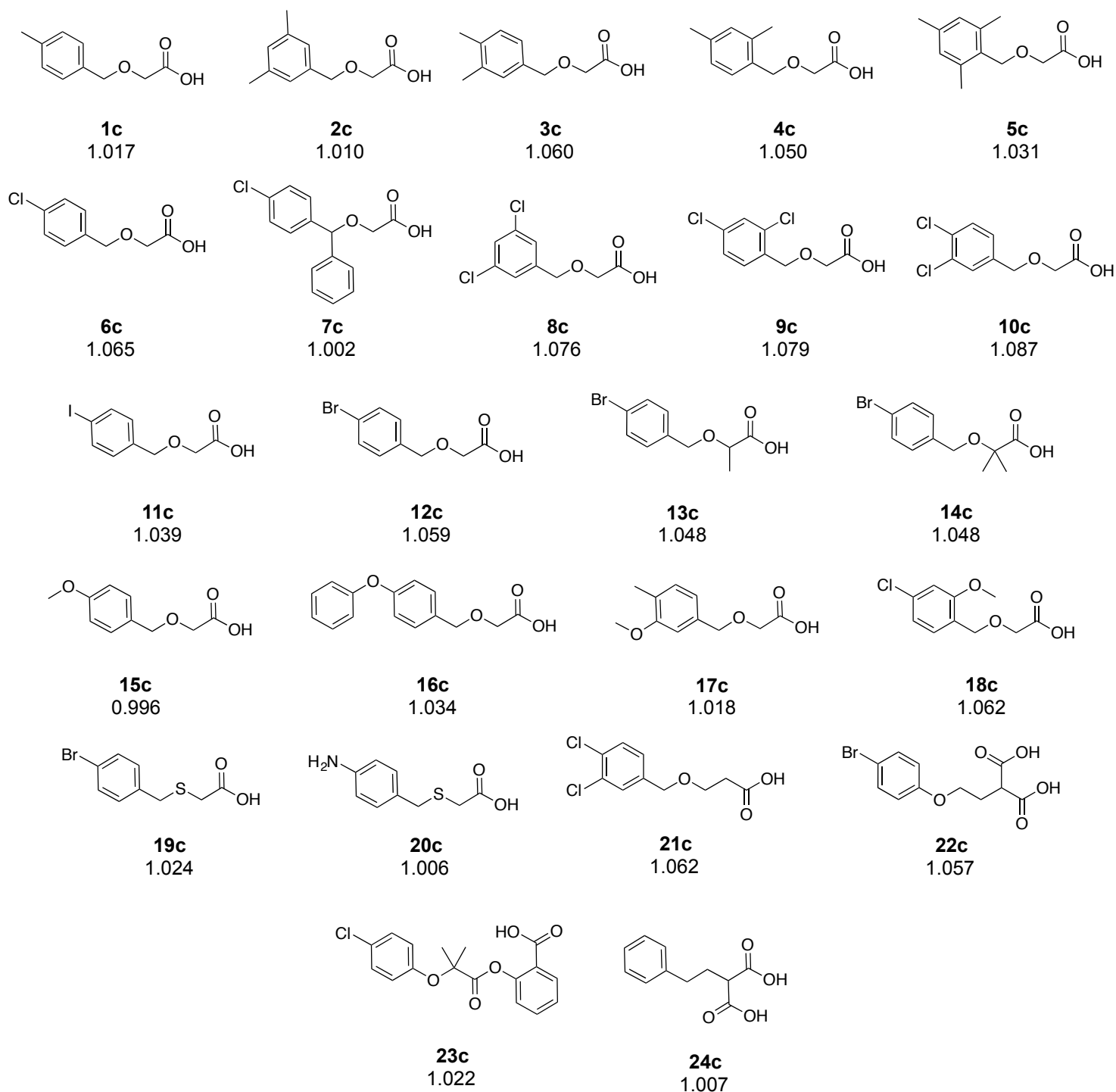
Supplementary Fig. 1. Chemical structures of ethacrynic acid analogs and their anti-sickling activity (HbS ratio ranging from 0.961-1.224).

Benzyloxyacetic acid



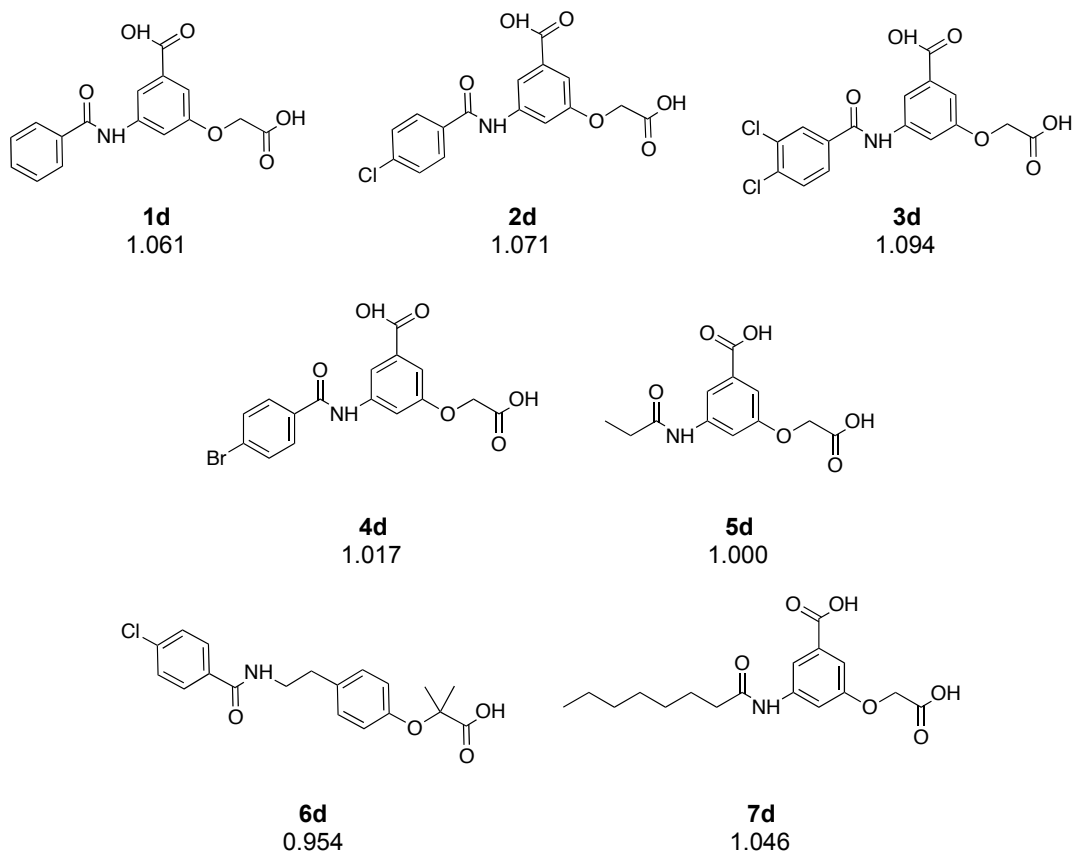
Supplementary Fig. 2. Chemical structures of benzyloxyacetic acid analogs and their anti-sickling activity (HbS ratio ranging from 0.983-1.077).

Phenoxyacetic acid



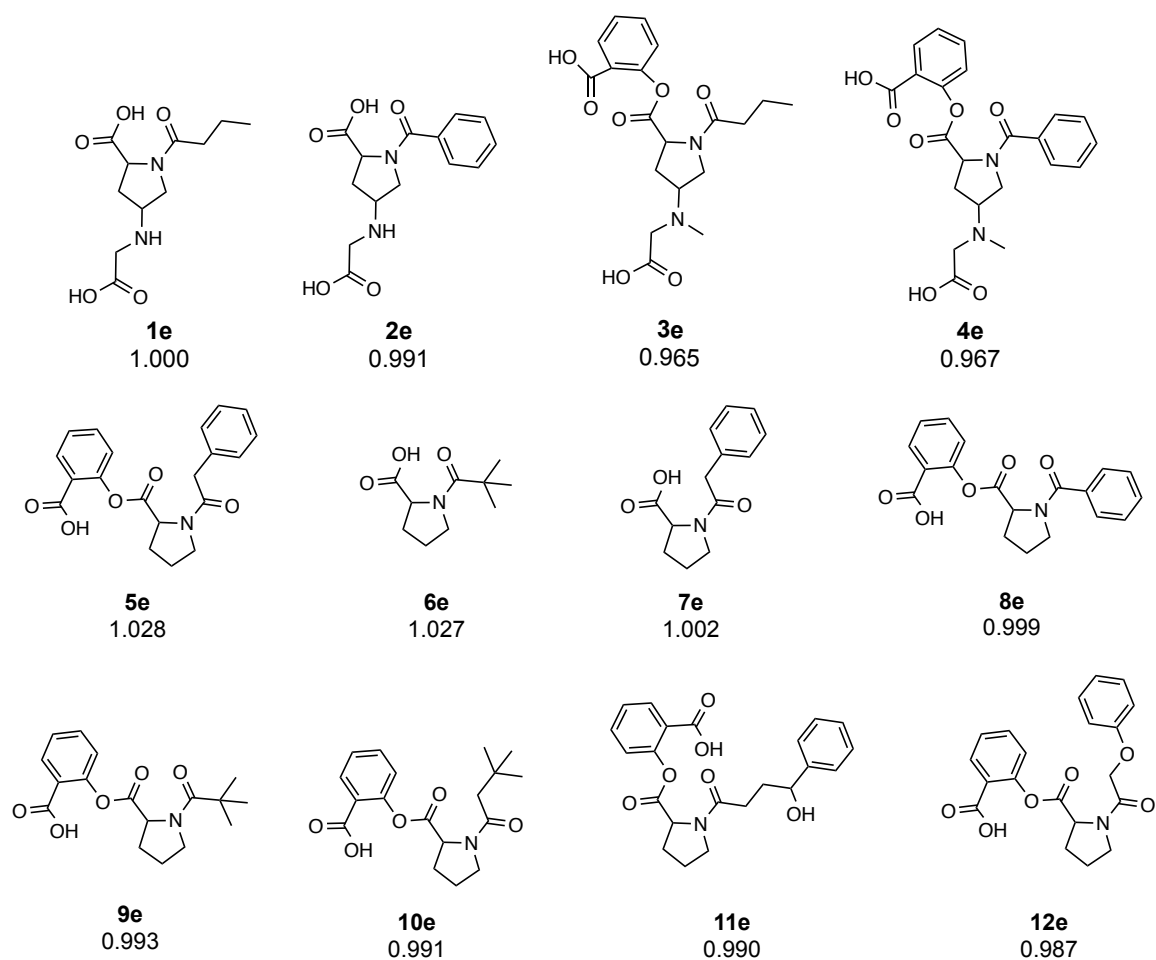
Supplementary Fig. 3. Chemical structures of phenoxyacetic acid analogs and their anti-sickling activity (HbS ratio ranging from 0.996 to 1.087).

Aromatic amide



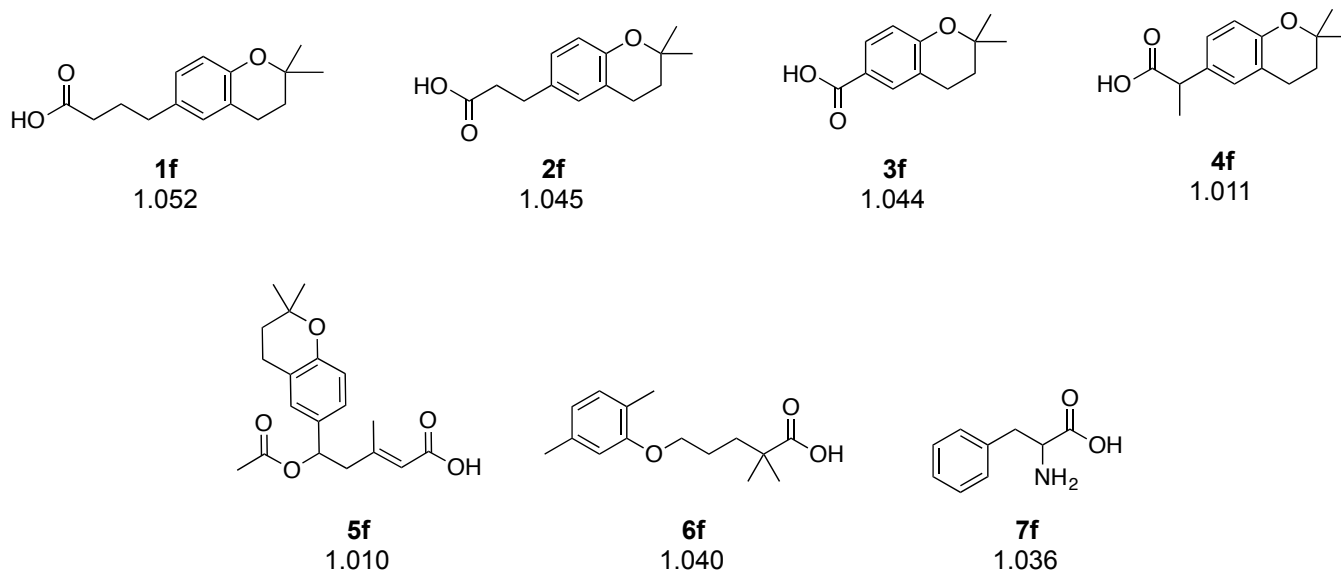
Supplementary Fig. 4. Chemical structures of aromatic amide analogs and their anti-sickling activity (HbS ratio ranging from 0.954 to 1.094).

Proline



Supplementary Fig. 5. Chemical structures of proline analogs and their anti-sickling activity (HbS ratio ranging from 0.967 to 1.028).

2,2 - dimethylchroman



Supplementary Fig. 6. Chemical structures of 2,2-dimethylchroman analogs and their anti-sickling activity (HbS ratio ranging from 1.010 to 1.052).