

Supplementary Table 4

Conservation of residues shown to contact ligand in crystal structure of human LXR $\beta$  bound to 24(S),25-epoxycholesterol

<b>Human LXR<math>\beta</math> Residue #</b>	<b>Portion of 24(S),25-Epoxy-cholesterol Bound</b>	<b><i>Ciona intestinalis</i> LXR residue</b>	<b>Purple Sea Urchin LXR Residue</b>	<b>Ecdysone Receptor Residue<sup>a</sup></b>
S278	D-ring	I	T	T
E281	D-ring	L	L	L
R319	D-ring	Q	R	R
S432	A-ring	N	N	G
H435	H-bond to 3-OH	H	H	N
W457	A-ring	W	W	W

<sup>a</sup> Ecdysone receptor: residue found in *Drosophila melanogaster* (Genbank accession no. NM\_165465), yellow fever mosquito (U02021), Atlantic sandfiddler crab (AF034086), ixodid tick (AF020187), migratory locust (AF049136), and domestic silkworm (L35266) ecdysone receptors.