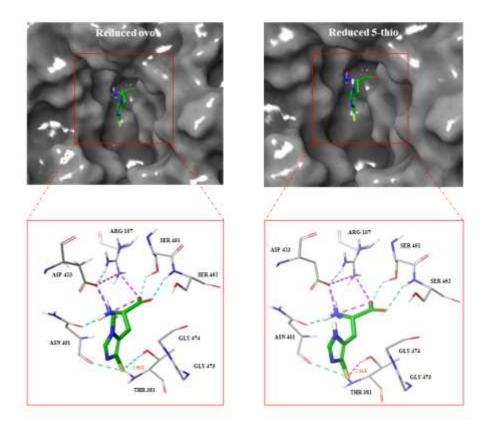
## Probing the interactions of sulfur-containing histidine compounds with human gamma-glutamyl transpeptidase

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**Table S1.** Cytotoxicity assay on HEK 293 cells. Cell vitality raw data were reported as units of fluorescence following the treatment with 5–thio for 24 and 48h (n=3).

Condition	Average ± SD
NT 24h	4717 ± 153
5-thio 5 μM	$6452 \pm 108$
5-thio 20 μM	$5470 \pm 71$
5-thio 50 μM	$4490 \pm 22$
5-thio 100 μM	$4395 \pm 5$
NT 48h	7794 ± 105
5-thio 5 μM	$9353 \pm 76$
5-thio 20 μM	$8969 \pm 20$
5-thio 50 μM	$8869 \pm 52$
5-thio 100 μM	8557 ± 205



**Figure S1. Molecular interactions of the reduced ovo and 5-thio within hGGT active site**. On top: hGGT surface view from docking simulations; on bottom: interactions among ovo/5-thio and key residues in the active site of hGGT. Carbon atoms of the active site residues are *colored light grey*, compared to carbon atoms of the ligands which are *colored green*. Oxygen atoms are *colored red*, nitrogen *blue*, sulfur *yellow*, polar hydrogens *white*. Non polar hydrogens were hidden. Dashed blue and magenta lines represent hydrogen bonds and salt bridges, respectively. Molecular distance between ovo/5-thio and OH- of Thr381 are written in orange.