Supplementary Figure 1





D

Supplementary Figure 2







Supplementary Figure 3



Supplementary Figure 4



Supplementary Figure 5



α-ΜΤ

SUPPLEMENTARY FIGURE LEGENDS

Supplementary Fig. 1 The publicly available TCGA database was used to analyze the mRNA expression levels of SLC3A1, SLC7A2, SLC7A3, SLC7A4 and SLC7A14 in colorectal cancer. **P*<0.05.

Supplementary Fig. 2 The effects of knockdown or blockade of SLC6A14 in SW480 cells. a The growth curve of the SW480 cells that were transfected with SLC6A14-siRNA or blockade of SLC6A14 with α -MT, as determined by MTT assay. b The cell apoptosis of the SW480 cells transfected with SLC6A14-siRNA or treated with α -MT cultured in FBS-free medium was stained with Annexin-V/PI and examined by flow cytometry. c The quantification of apoptotic cells identified as PI-negative and Annexin-V-positive staining. d Cell cycle analysis G₁/S transition of the SW480 cells transfected with SLC6A14-siRNA or treated with SLC6A14-siRNA or treated with SLC6A14-siRNA or treated with SLC6A14-siRNA or treated with G-MT by flow cytometry. e Quantification of cell cycle analysis. The data are expressed as the mean±SD of three independent experiments.

Supplementary Fig. 3 Knockdown or blockade of SLC6A14 promotes apoptosis in the medium with 10% FBS. a The cell apoptosis of the HCT116 or Caco2 cells transfected with SLC6A14-siRNA or treated with α -MT cultured in 10% FBS medium was stained with Annexin-V/PI and examined by flow cytometry. **b** The quantification of apoptotic cells identified as PI-negative and Annexin-V-positive staining. The data are expressed as the mean \pm SD of three independent experiments. **P*< 0.05.

Supplementary Fig. 4 The effects of different concentrations of α -MT on cell proliferation and apoptosis. a The growth curve of the HCT116 cells treated with 0mM, 0.62mM, 1.25mM and 2.5mM α -MT, as determined by MTT assay. b The cell apoptosis of the HCT116 cells treated with 0mM, 0.62mM, 1.25mM and 2.5mM α -MT was stained with Annexin-V/PI and examined by flow cytometry. c The quantification of apoptotic cells identified as PI-negative and Annexin-V-positive staining.

Supplementary Fig. 5 Two pictures of another 6 mice.

WB raw blots Figure 1



Figure 1E-β-actin

WB raw blots Figure 3



siNC si-SLC6A14-981 si-SLC6A14-1702 HCT116 siNC si-SLC6A14-981 si-SLC6A14-1702 Caco2

WB raw blots Figure 6A-HCT116-mTOR



WB raw blots Figure 6A-Caco2-mTOR

Figure 6A-

GbL-Caco2





siNC si-SLC6A14-1702 a-MT



siNC si-SLC6A14-1702 a-MT

WB raw blots Figure 6A-HCT116-MMPs



WB raw blots Figure 6A-Caco2-MMPs







siNC si-SLC6A14-1702 α-ΜΤ



Figure 6A-SLC6A14-Caco2

WB raw blots Figure 6D-HCT116



siNC si-SLC6A14-1702 a-MT



siNC si-SLC6A14-1702 α-MT

Figure 6D-P-S6-HCT116



siNC si-SLC6A14-1702 a-MT

Figure 6D-actin-HCT116



WB raw blots Figure 6D-Caco2







Figure 6D-P-S6-Caco2

siNC si-SLC6A14-1702 a-MT



siNC si-SLC6A14-1702 α-MT



Figure 6D-actin-Caco2

WB raw blots Figure 6F-HCT116



Figure 6F-Akt-HCT116

siNC si-SLC6A14-1702 a-MT



Figure 6F-P-Akt-HCT116

siNC si-SLC6A14-1702 a-MT



siNC si-SLC6A14-1702 α-MT

Figure 6F-actin-HCT116

WB raw blots Figure 6F-Caco2



siNC si-SLC6A14-1702 a-MT





siNC si-SLC6A14-1702 α-MT

Figure 6F-actin-Caco2

Figure 6F-P-Akt-Caco2



WB raw blots multiple exposure images







SLC6A14

β-actin