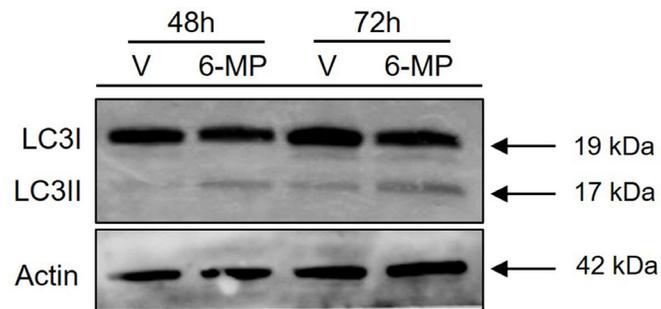
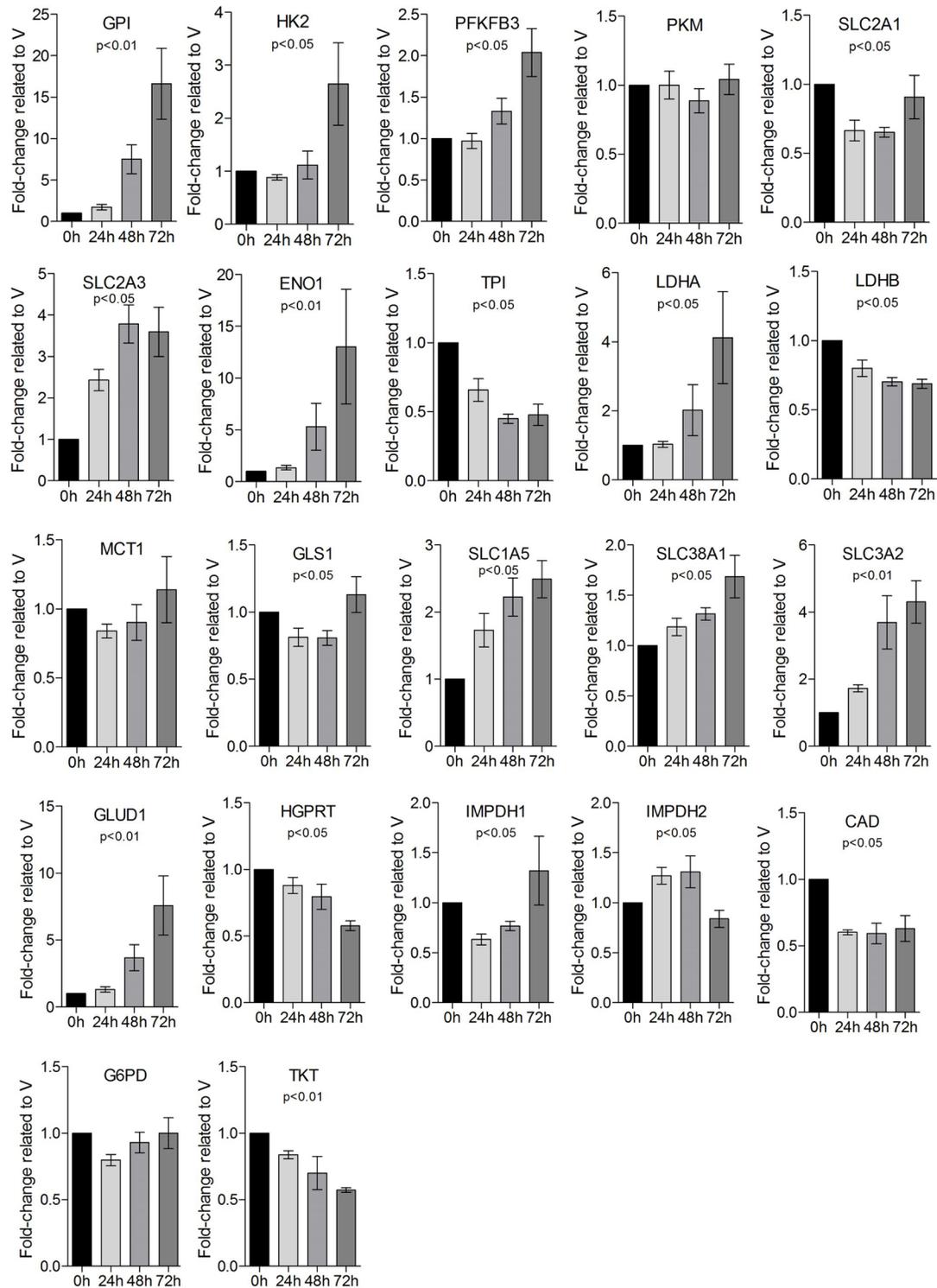


6-mercaptopurine promotes energetic failure in proliferating T cells

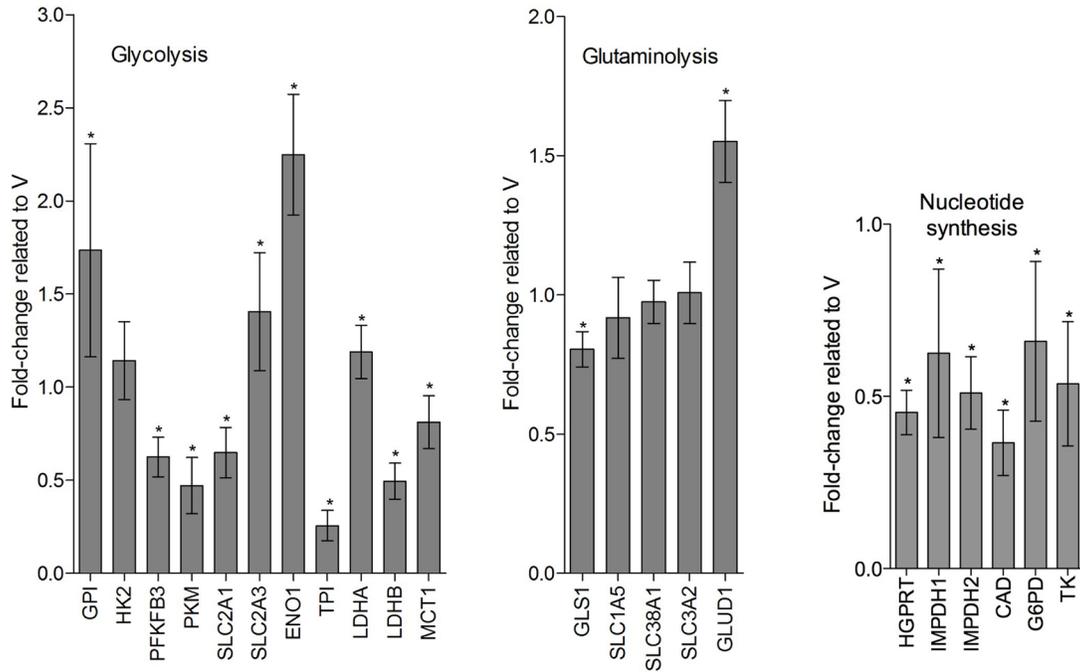
Supplementary Materials



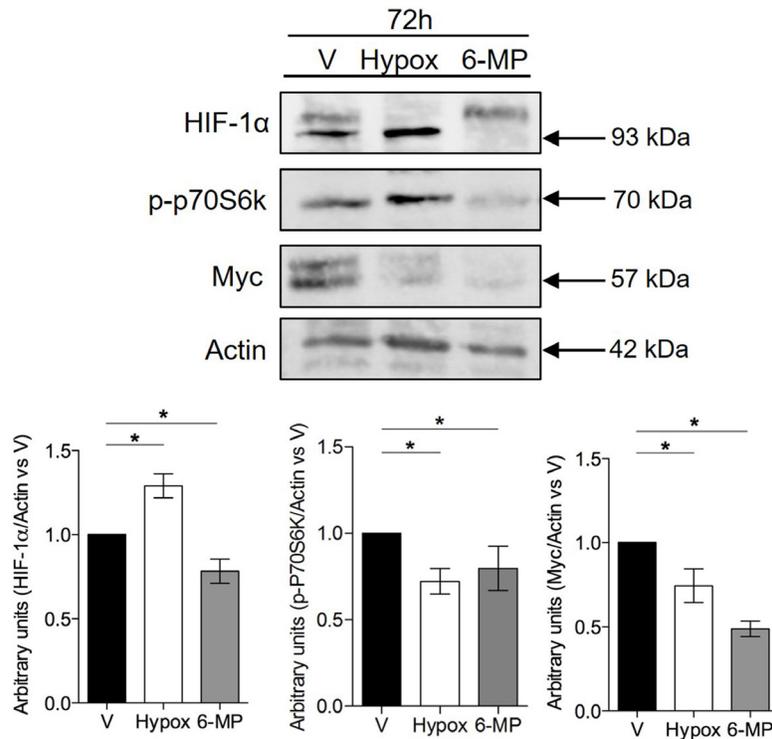
Supplementary Figure 1: LC3 immunoblot upon 6-MP exposure. Immunoblot representing LC3I and LC3II after 48 and 72 h incubation with 50 μ M 6-MP or vehicle (V). The immunoblot is representative of three independent experiments.



Supplementary Figure 2: Histograms of each gene implicated in glycolysis, glutaminolysis and nucleotide synthesis after 24, 48 and 72 h of incubation with 6-MP. Histograms are representative of four independent experiments. One-way ANOVA statistical analysis was performed.



Supplementary Figure 3: Histograms of each gene implicated in glycolysis, glutaminolysis and nucleotide synthesis after 16 h of glucose and glutamine deprivation. Histograms are representative of four independent experiments.



Supplementary Figure 4: Immunoblot after incubation with 6-MP. (Top) Immunoblot representing phospho-p70S6K (70 kDa ribosomal protein S6 kinase 1), HIF-1α (hypoxia inducible factor 1α), Myc, and actin protein expression in a human T lymphocyte leukaemia cell line (Jurkat) after 72 h of incubation 50 μM 6-MP or vehicle (V). A 24-h exposure to hypoxia was used as a control. The immunoblot is representative of four independent experiments. (Bottom) Histograms representing the densitometric analysis of the immunoblots.

Supplementary Table 1: Primer sequences used for RT-PCR analysis

Gene name	Primer sequence
GPI	F 5'-ccaccagcagacacacatca-3' R 5'-cctgtgcactagtgcggcttc-3'
HK2	F 5'-tggcagacctcatcttccttc-3' R 5'-aacacacagtggaactggc-3'
PFKFB3	F 5'-ggtgtgcgacgacctac-3' R 5'-gtacacgatgcggctctg-3'
PKM	F 5'-cgggataaccttgaggctga-3' R 5'-gaagagatccggagccacg-3'
SLC2A1	F 5'-tatgtggagcaactgtgtgt-3' R 5'-tccggccttagctcagga-3'
SLC2A3	F 5'-gacacagaaggtcaccccag-3' R 5'-gacgaagagtcggacgaaa-3'
ENO1	F 5'-ttcggctcaccggtctatc-3' R 5'-ggagagccgtcactattcc-3'
TPI	F 5'-cgttgggggaaactggaagat-3' R 5'-aaaccacctcgggtcggc-3'
LDHA	F 5'-acgtcagcatagctgtgcaa-3' R 5'-aggaatcgggaatgcacgtc-3'
LDHB	F 5'-gcctcctctcctgtgcaa-3' R 5'-cctcttctccgcaactgt-3'
MCT1	F 5'-ggttataaggcagcctcgc-3' R 5'-ttgctgttccagtaccacg-3'
GLS1	F 5'-tcccaaggacaggtggaat-3' R 5'-gaggtgtgtggacttgg-3'
SLC1A5	F 5'-tggactggctagtcaccg-3' R 5'-gggcagctcactctcactt-3'
SLC38A1	F 5'- gggatttgggactcgcctt-3' R 5'- tacaccatgcagcctgttct-3'
SLC3A2	F 5'- gggcctggactcttctccta-3' R 5'- ggccacatcccaaagtta-3'
GLUD1	F 5'- gtaactgcatggctaacctgg-3' R 5'- tctgggcagctcacaataaag-3'
HGPRT	F 5'- ttgcttcttggtcaggca-3' R 5'- atccaacactcgtggggtc-3'
IMPDH1	F 5'- gtctgccttcggtccatga-3' R 5'- gccgctttcgaagagtc-3'
IMPDH2	F 5'-tggaggcaatgtggtcactg-3' R 5'-gccagcactcctcgtaa-3'
CAD	F 5'- ggagttgcagtccttccc-3' R 5'- gccggttgaaacaccactt-3'
G6PD	F 5'-cgacgacgacgacgaagcgaga-3' R 5'-ggccaggtcaccgatgcac-3'
TKT	F 5'-tgtgtccagtgcagtagtg-3' R 5'-acacttcatacccgcctag-3'
RPL13A	F 5'-cctggaggagaagaggaaagaga-3' R 5'-gaggacctgtgtattgtcaa-3'