

Figure S1. Overview of tryptophan metabolism. IDO, indole-2,3-dioxygenase; TDO, tryptophan-2,3-dioxygenase; KMO, kynurenine 3-monooxygenase; KYNU, kynureninase; 3-HAO, 3-hydroxyanthranilate-3,4-dioxygenase; QPRT, quinolinate phosphoribosyl transferase; KAT, kynurenine aminotransferase.

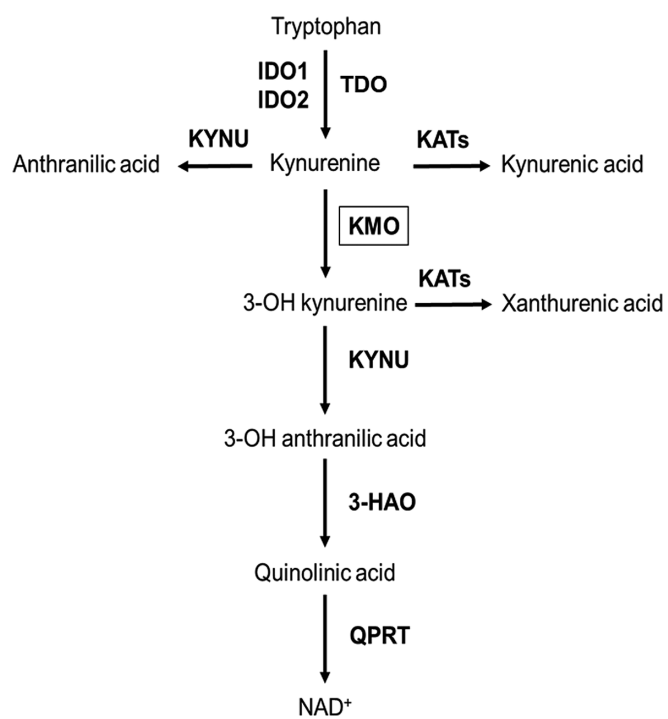


Figure S2. Associations of serum 3-HK levels and KMO activity with the degree of treatment response. The 7 patients in this figure are a subset of the 28 patients in Fig. 1. Representative HPLC chromatograms of (A) 3-HK and (B) KYN in the sera of patients with DLBCL after treatment. Representative HPLC chromatograms of the standard substance and the patients with DLBCL before treatment are shown in Fig. 1A and B. (C) Levels of serum 3-HK and the 3-HK/KYN ratio (indicating KMO activity) in patients with DLBCL (n=7) before and after treatment were measured using HPLC. P-values were determined using a two-sided paired t-test. 3-HK, 3-hydroxykynurenine; DLBCL, diffuse large B-cell lymphoma; HPLC, high-performance liquid chromatography; KMO, kynurenine 3-monooxygenase; KYN, kynurenine.

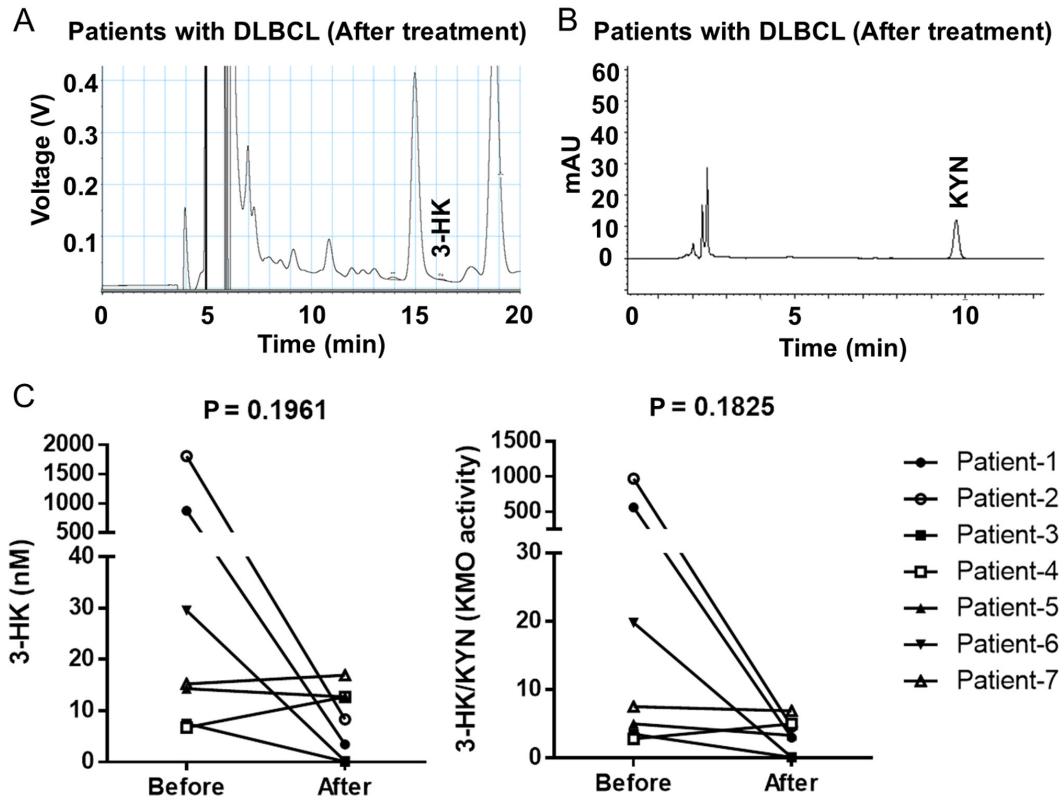


Table SI. Primers used for PCR.

Target gene	Gene accession no.	Primer sequences (5'-3')
β -actin	NM_001101	F: GCACCACACCTTCTACAATGAG R: ATAGCACAGCCTGGATAGCAAC
IDO1	NM_002164	F: CCTGACTTATGAGAACATGGACGT R: ATACACCAGACCGTCTGATAGCTG
KMO	NM_003679	F: CATTGGTGGTGGCTTGGTTG R: CACGTGTGAAGGTAGCCACT
KYNU	NM_003937	F: CTGTTTCAGTGGGGTGCATTTTA R: TAACAACCCTTCGCTTGTCC
3-HAO	NM_012205	F: CGAAGAGGGTGAAGAGGTATTT R: TATCTCTCCCTGCCGAATG
QPRT	NM_014298	F: TTCGCTCTGAAGGTGGAAGTG R: CCTCTGGCTTGAAGTTGTCC

3-HAO, 3-hydroxyanthranilate-3,4-dioxygenase; F, forward; IDO1, indoleamine 2,3-dioxygenase 1; KMO, kynurenine 3-monooxygenase; KYNU, kynureninase; QPRT, quinolinate phosphoribosyltransferase; R, reverse.