

Supplementary Table S2. EEN-enriched bile acids are natural ligands of various receptors which are distributed on different immune cells.

Receptors	Agonists	Antagonists	Immune cell distribution
G-protein bile acid receptor 1 (GPBAR1/Tgr5)	CA, CDCA, HCA, HDCA, UDCA, bUDCA, 6-ketoLCA		Macrophage
Farnesoid-X-Receptor (NR1H4)	CA, CDCA	α MCA, β MCA, HCA	Macrophage, Dendritic cell
Vitamin D receptor (NR1H1)	6-keoto-LCA, 6,7-diketoLCA		Macrophage, Dendritic cell
Retinoic acid-related orphan receptor- γ t (NR1F1-3)	6-keoto-LCA, 6,7-diketoLCA		T helper 17, group 3 innate lymphoid cells

EEN, exclusive enteral nutrition; CA, cholic acid; CDCA, chenodeoxycholic acid; HCA, hyocholic acid; HDCA, α -hyodeoxycholic acid; UDCA, ursodeoxycholic acid; bUDCA, 3 β -ursodeoxycholic acid; 6-ketoLCA, 6-ketolithocholic acid; α MCA, α -muricholic acid; β MCA, β -muricholic acid; HCA, hyocholic acid; 6,7-diketoLCA, 6,7-diketolithocholic acid.