Reversal of Adenosine-Mediated Immunosuppression: Small Molecule Inhibitors of CD73

CD73 is an enzyme that catalyzes the dephosphorylation of adenosine monophosphate (AMP) to adenosine. Given the upregulation of CD73 in the tumor microenvironment and the role of adenosine in immune suppression, inhibition of this enzyme increases immune cell infiltration into mouse tumors and results in decreased tumor growth, making it a promising immuno-oncology target. The inhibition of CD73 using small molecules will be discussed.