



Figure 4. Metabolism of the α -ketoglutarate cofactor regulates the activity of the TET and KDM enzymes in normal and cancer cells. The α -ketoglutarate metabolite is produced by the enzymatic action of the IDH proteins. Some cancer driving dominant-negative mutants of IDH cause the accumulation of an aberrant metabolite, 2-hydroxyglutarate, which blocks TET and KDM activity.