		guanine		
		deoxyinosine		
		amp		
		glutamine		
		glyoxylate		
		gdp		
		carbamoyl phosphate adp		
		dgdp	Purine metabolism	
	idp 0.5	0.5		
		urea	-0.5 -1	
		adenosine 5-phosphosulfate		
		uric acid		
hyp		hypoxanthine		
		guanosine 5-diphosphate,3-diphosphate  gtp  dgtp		
		atp		
		xanthosine		
		guanosine		