N6-dimethyl rA

N6-dimethyl-riboadenosine (N6-dimethyl rA) is a minor RNA modification found primarily in rRNA (1), and recently, in Mycobacterium tRNA (2). N6-dimethyl rA appears to play a structural role in rRNA; in 16S RNA of E. coli, two successive N6-dimethyl rA modifications are present 24 and 25 residues from the 3'end, and nowhere else (3). These residues are located at the interface between the 30S and 50S subunits of 70S E. coli rRNA (1), but do not appear to play a major role in the binding of fMet-tRNA, or in initiation of protein synthesis (4). Its precise role in tRNA is yet unknown. References