

Name: KamA family radical SAM protein

Function: “This protein is an important nucleoside that serves as an activated group donor in a broad array of metabolic and biosynthetic reactions, including methylations, propylamine group transfer in polyamine synthesis and SAM radical-mediated vitamin synthesis” (Parveen and Cornell (2011))

This protein is already described in others organisms and the scientists see it as a good drug target.

Gene Ontology:

Molecular function: isomerase activity; 4 iron, 4 sulfur cluster binding

Source: This protein doesn't have a Swissprot number on NCBI page, so we did the BLAST and obtained an e-value of 0.0 and a Swissprot number: P96122.

We compared the information in CDD about the domain of protein and in Uniprot database, where the protein has an annotation score 2 of 5. All the information matched so we added the Swissprot number to the annotation.

Articles:

- Parveen, N., and Cornell, K. A. (2011). Methylthioadenosine/S-adenosylhomocysteine nucleosidase, a critical enzyme for bacterial metabolism. *Molecular microbiology*, 79(1), 7-20.