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Title: AMP-Acetyl CoA Synthetase from *Leishmania donovani*: Identification and functional analysis of 'PX₄GK' motif

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1 Highlights

- 2 • An AMP forming AceCS from *L. donovani* is cloned and
3 characterized.
- 4 • *LdAceCS* has PX₄GK motif conserved in all AMP forming family
5 of proteins.
- 6 • *LdAceCS* is present in cytosol.
- 7 • The recombinant *LdAceCS* obeyed classical Michaelis-Menten
8 kinetics.
- 9 • PX₄GK motif residues majorly govern substrate specificity.

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