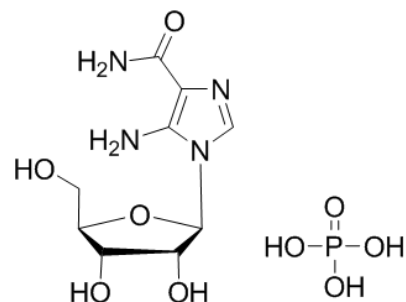


Product Name : AICAR phosphate
Cat. No. : PC-43520
CAS No. : 681006-28-0
Molecular Formula : C₉H₁₇N₄O₉P
Molecular Weight : 356.23
Target : AMPK
Solubility : 10 mM in H₂O



Biological Activity

AICAR phosphate (Acadesine, AICA Riboside, NSC 105823) is a selective **AMPK** activator in both hepatocytes and adipocytes.

AICAR inhibits the synthesis of fatty acids and sterols and inactivates HMG-CoA reductase in rat hepatocytes at 0.5 mM.

AICAR inhibits insulin-stimulated glucose and reduces GLUT4 translocation in 3T3-L1 adipocytes.

AICAR down-regulates the insulin receptor expression in HepG2 cells.

References

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Young ME, et al. *FEBS Lett.* 1996 Mar 11;382(1-2):43-7.

Samari HR, et al. *J Biol Chem.* 1998 Sep 11;273(37):23758-63.

Ayasolla KR, et al. *J Neuroinflammation.* 2005 Sep 20;2:21.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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