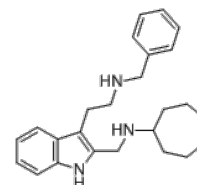


Product Name : AXKO-0046
Cat. No. : PC-72514
CAS No. :
Molecular Formula : C₂₅H₃₃N₃
Molecular Weight : 375.56
Target : Lactate Dehydrogenase (LDH)
Solubility : 10 mM in DMSO



Biological Activity

AXKO-0046 (AXKO0046) is the first highly selective, small molecule inhibitor of human **lactate dehydrogenase B (LDHB)**, exhibits uncompetitive LDHB inhibition with EC₅₀ of 42 nM.

AXKO-0046 selectively inhibited LDHB activity in an uncompetitive manner with respect to NADH and pyruvate, no inhibitory activity against LDHA at 300 uM.

AXKO-0046 did not bind in the catalytic site of the enzyme but significantly bound to LDHB in the novel allosteric site of the tetramer.

AXKO-0046 is a promising chemical probe to elucidate the role of LDHB-associated pathways in cancer metabolism.

References

Sachio Shibata, et al. *Sci Rep*. 2021 Nov 1;11(1):21353.

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

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