

Product Datasheet

NCATS-SM1441

Catalog No. **BP-01955** · CAS **1964517-04-1** · Form **free base** · Physical state **solid** · Color **White to light yellow** · Version **1.0** · Revision **2026-09-08**

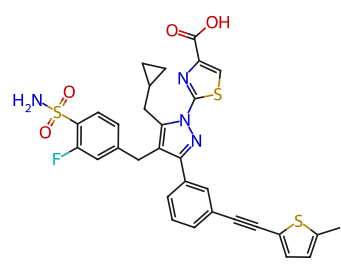
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Target Lactate Dehydrogenase	Research area Cancer
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Molecular formula **C₃₁H₂₅FN₄O₄S₃**

Molecular weight **632.7480**

STRUCTURE



DESCRIPTION

NCATS-SM1441 (compound 52) is a lactate dehydrogenase (LDH) inhibitor (IC₅₀=40 nM). By inhibiting the activity of LDH, NCATS-SM1441 is able to reduce the production of lactic acid in cancer cells, helping to slow or stop the proliferation of cancer cells. NCATS-SM1441 can be used to study cancer metabolism .

SOLUBILITY

Soluble in DMSO 100 mg/mL

REFERENCES

[1]. Rai G, et al. Pyrazole-based lactate dehydrogenase inhibitors with optimized cell activity and pharmacokinetic properties[J]. Journal of medicinal chemistry, 2020, 63(19): 10984-11011.

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