

ITGB3-IN-1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	ITGB3-IN-1 is an orally active integrin $\beta 3$ subunit (ITGB3) inhibitor with a Kd of 7.26 μM . This compound demonstrates potent anti-orthopoxvirus activity, exhibiting an EC50 of 1.82 μM against vaccinia virus (VACV). ITGB3-IN-1 also inhibits hERG with an IC50 of 1.13 μM and can be utilized in orthopoxvirus research.
Targets(IC50)	Integrin,Potassium Channel
In vitro	ITGB3-IN-1 (Compound 6) exhibits low cytotoxicity in Vero cells ($\text{CC}_{50} = 400 \mu\text{M}$) and has a high therapeutic index against vaccinia virus (219.78).
In vivo	ITGB3-IN-1 (Compound 6) demonstrates potent anti-vaccinia virus activity in mice when administered orally at a dosage of 45-90 mg/kg once daily for five days.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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