Data Sheet (Cat.No.T79604)

TargetMol

SHR5428

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	SHR5428 is an orally active, selective, noncovalent inhibitor of CDK7, displaying potent enzymatic inhibition (IC50 = 2.3 nM) and effectively suppressing cellular activity in triple-negative breast cancer MDA-MB-468 cells (IC50 = 6.6 nM) [1].
Targets(IC50)	CDK
In vivo	SHR5428 administered orally at doses of 3-30 mg/kg once daily for 21 days demonstrated dose-dependent tumor growth inhibition [1]. A single oral dose of SHR5428 at 2 mg/kg exhibited favorable pharmacokinetic profiles across various species, including mice, rats, and dogs [1]. The pharmacokinetic parameters of SHR5428 in these species were as follows: Maximum concentration (Cmax) in ng/mL was 116 for mice, 120 for rats, and 543 for dogs; the area under the curve (AUC) in ng/mL*h was 139 for mice, 556 for rats, and 4101 for dogs; the half-life (t1/2) in hours was 0.7 for mice, 2.6 for rats, and 4.9 for dogs; and bioavailability (F%) was 32% for mice, 44% for rats, and 92% for dogs [1].

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