

FGFR-IN-19

## Chemical Properties

CAS No. :

Formula: C36H42N12O6

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	Arg-IN-1 is a selective covalent inhibitor targeting Arginine (Arg), with IC50 values of 9.7 nM and 30.4 nM for FGFR2 and FGFR3, respectively. This compound is designed to potentially avoid the off-target toxicity of FGFR1/4 and overcome acquired resistance, offering potential in cancer therapies targeting FGFR.
Targets(IC50)	FGFR
In vitro	Arg-IN-1 (Compound RF3) exhibits remarkable selectivity for FGFR2 and FGFR3, with IC <sub>50</sub> values of 9.7 nM and 30.4 nM, respectively. Its inhibitory effect on FGFR1 and FGFR4 is significantly reduced by factors of 244 and 765 (IC <sub>50</sub> : 2367.6 nM and 7418.4 nM). Additionally, Arg-IN-1 demonstrates excellent anti-resistant activity, with an IC <sub>50</sub> of 9.4 nM against the FGFR2 V564F mutation.

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