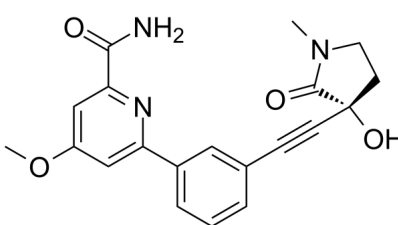


## Certificate of Analysis

Catalog Number	BP17740
Product Name	NIK SMI1

## Physical and Chemical Properties

CAS No.	1660114-31-7
Chemical Formula	C <sub>20</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub>
Molecular Weight	365.389
Solubility	DMSO: 100 mg/mL (273.69 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	 <p>The chemical structure of NIK SMI1 consists of a pyridine ring substituted with a methoxy group at the 4-position, an amide group at the 3-position, and a 4-((1S,2S)-2-hydroxy-2-methyl-1,3-dioxol-5-yl)phenyl group at the 2-position.</p>

## Product Information

Description	NIK SMI1 is an effective and selective NF-κB inducing kinase (NIK) inhibitor. It also inhibits NIK-catalyzed hydrolysis of ATP to ADP (IC <sub>50</sub> : 0.23±0.17 nM).
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In vitro	NIK SMI1 inhibits the expression of NIK SMI1 response element regulated firefly luciferase reporter gene in HEK293 cells (IC <sub>50</sub> : 34±6 nM). NIK SMI1 inhibits BAFF-induced B cell (mouse) survival in vitro with an IC <sub>50</sub> of 373±64 nM. Consistent with expectations for a NIK inhibitor, NIK SMI1 is shown to inhibit nuclear translocation of p52 (RelB) (IC <sub>50</sub> =70 nM).
In vivo	The pharmacology of NIK SMI1 is examined in SD rat, CD-1 mouse, beagle, and cynomolgous monkey with 20, 32, 18, and 7.8 mL/kg per min, respectively. The volume of distribution (V <sub>d</sub> , L/kg) is 1.35, 1.58, 0.778, and 1.39, respectively. C57BL/6 mice are treated twice daily for 7 days with orally administered NIK SMI1 or with three injections of recombinant BAFF receptor fusion protein (Br3- mIgG2a) over the course of the 7-day experiment as a positive control .

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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