


## Certificate of Analysis

Catalog Number	BP12546
Product Name	FMK 9a

## Physical and Chemical Properties

CAS No.	1955550-51-2
Chemical Formula	C <sub>23</sub> H <sub>21</sub> FN <sub>2</sub> O <sub>3</sub>
Molecular Weight	392.43
Solubility	DMSO: 95 mg/mL (242.09 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	FMK 9a is an irreversible inhibitor of ATG4B with IC <sub>50</sub> values of 80 and 73 nM in the TR-FRET and cellular-based LRA assays.
Targets&IC <sub>50</sub>	autophagin-1, FRET assay:80 nM, autophagin-1, LRA assay:73 nM
In vitro	FMK 9a forms a covalent bond with the more reactive thiol group of Cys74 located at the catalytic site of ATG4B thereby inactivating ATG4B proteolytic activity.

In vivo	FMK 9a shows moderate solubility and high liver microsome clearances for human and mice of 13.9 and 70 mL/kg/min.
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## 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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