

# Kifunensine

Cat. No. ALK-0061

Lot. No. (See product label)



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## Product Name

Kifunensine

## CAS No.

109944-15-2

## Synonyms

FR-900494

## Description

Kifunensine, a potent and selective inhibitor of class I  $\alpha$ -mannosidases isolated from Actinomycete, prevents  $\alpha$ -mannosidases I from trimming mannose residues on glycoproteins. Kifunensine inhibits ERAD.

## Structural Formula

Kifunensine

## MW

232.19

## MF

C<sub>8</sub>H<sub>12</sub>N<sub>2</sub>O<sub>6</sub>

## Purity

0.993

## Appearance

Solid

## Solubility

DMSO : 11.9 mg/mL(51.25 mM;Need ultrasonic)

## Source

actinomycete

## IC50 & Target

Plasmodium

## Shipping

Room temperature in continental US; may vary elsewhere.

## SMILES

O=C(N1[C@@](N2)([H])[C@@H](O)[C@@H](O)[C@H](O)[C@H]1CO)C2=O

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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## In Vitro

Kifunensine, an alkaloid from actinomycete *Kitasatosporia kifunense* 9482, is the most efficient inhibitor of  $\alpha$ -mannosidase I, blocking N-glycan synthesis at an8GlcNAc2 (Man8) or Man9GlcNAc2 (Man9) stage.

## Storage

-20°C for 3 years

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