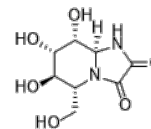


Product Name : Kifunensine
Cat. No. : PC-24743
CAS No. : 109944-15-2
Molecular Formula : C₈H₁₂N₂O₆
Molecular Weight : 232.19
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Kifunensine (FR-900494) is a potent inhibitor of glycoprotein processing mannosidase I (alpha-mannosidase I) with IC₅₀ of 20-50 nM, inactive toward the plant mannosidase II, kifunensine also inhibits the Golgi mannosidase I in rat liver microsomes.

Kifunensine inhibits glycoprotein processing and the function of the modified LDL receptor in endothelial cells.

Kifunensine prevents α-mannosidases I from trimming mannose residues on glycoproteins.

Kifunensine is a glycosylation inhibitor, inhibits N-linked glycosylation.

References

Elbein AD, et al. J Biol Chem. 1990 Sep 15;265(26):15599-605.

Elbein AD, et al. Arch Biochem Biophys. 1991 Jul;288(1):177-84.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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