



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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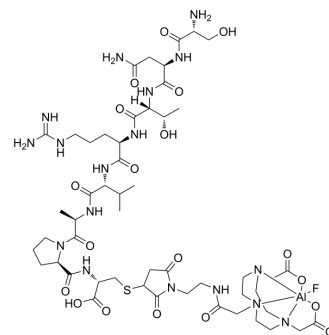
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AlF-NOTA-c-d-VAP

Cat. No.:	HY-D2334
Molecular Formula:	C ₅₁ H ₈₃ AlFN ₁₇ O ₁₉ S
Molecular Weight:	1316.35
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AlF-NOTA-c-d-VAP is a peptide positron emission tomography (PET) probe that used for targeted tumor imaging of GRP78. AlF-NOTA-c-d-VAP demonstrates high stability in vitro and in vivo ^[1] .
In Vivo	Micro-PET imaging, pharmacokinetic analysis, and biodistribution studies were carried out in tumor-bearing mice to evaluate the probe's performance. AlF-NOTA-c-DVAP is radiolabeled in just 25 min with a high yield of 51%, a radiochemical purity of 99%, and molar activity within the range of 20-50 GBq/μmol. Dynamic PET imaging of AlF-NOTA-c-DVAP in tumors showed rapid uptake and sustained retention, with minimal background uptake. Biodistribution studies revealed rapid blood clearance and excretion through the kidneys following a single-compartment reversible metabolic model ^[1] . In PET imaging, the T/M ratios for A549 tumors (high GRP78 expression), MDA-MB-231 tumors (medium expression), and HepG2 tumors (low expression) at 60 min postintravenous injection are 10.48%, 6.25%, and 3.15% ID/g, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jiawen Huang, et al. Synthesis and Evaluation of [18F]AlF-NOTA-c-DVAP: A Novel PET Probe for Imaging GRP78 in Cancer. Mol Pharm. 2024 Mar 30.

Caution: Product has not been fully validated for medical applications. For research use only.

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