Product Datasheet

(±)-H3RESCA-TFP

Catalog No. **BP-02176** · CAS **1919794-40-3** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-04**

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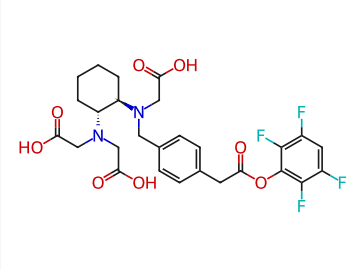
Target	Research area
Drug Derivative	**Cancer**

Molecular formula	$C_{27}H_{28}F_4N_2O_8$
Molecular weight	**584.5134**

STRUCTURE



DESCRIPTION

(±)-H3RESCA-TFP ((±)-H3L28) is a tetrafluorophenyl ester derivative of restrained complexing agent (RESCA). (±)-H3RESCA-TFP can be used to conjugate the chelator with a biomolecule via amine coupling (e.g., N terminus and/or the ε-amino groups of lysine) .

BIOLOGICAL ACTIVITY

In Vitro

The aluminum fluoride restrained complexing agent (Al18F-RESCA) method combines the chemical advantages of a chelator-based radiolabeling method with the unique physical properties of the radionuclide of choice, fluorine-18. Proteins of interest can be conjugated to RESCA via amine coupling using (±)-H3RESCA-TFP. Al18F-labeled proteins can be obtained with moderate (12-17 GBq/μmol) to good (80-85 GBq/μmol) apparent molar activity, depending on the starting activity of 18F-.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Cleeren F, et al. Direct fluorine-18 labeling of heat-sensitive biomolecules for positron emission tomography imaging using the Al18F-RESCA method. Nat Protoc. 2018 Oct;13(10):2330-2347.