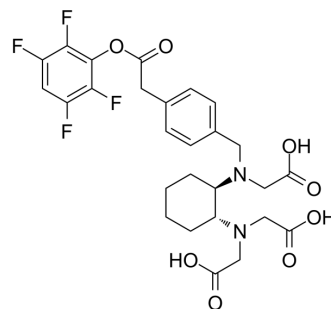


(±)-H3RESCA-TFP

Cat. No.:	HY-133513
CAS No.:	1919794-40-3
Molecular Formula:	C ₂₇ H ₂₈ F ₄ N ₂ O ₈
Molecular Weight:	584.51
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

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) ^[1] .
In Vitro	The aluminum fluoride restrained complexing agent (Al ¹⁸ F-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. Al ¹⁸ F-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 ¹⁸ F- ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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

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