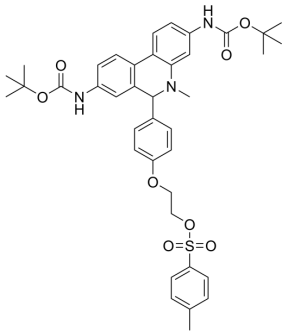
ROS tracer precursor

Cat. No.:	HY-126712
CAS No.:	2153480-20-5
Molecular Formula:	$C_{39}H_{45}N_3O_8S$
Molecular Weight:	715.85
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ROS tracer precursor is the precursor of [^{18}F]ROStrace for the synthesis of ROStrace, which can be used for disease diagnosis [1].
In Vivo	[^{18}F]ROStrace is a radiotracer for imaging superoxide in vivo with positron emission tomography (PET), in an LPS model of neuroinflammation. [^{18}F]ROStrace is found to rapidly cross the blood-brain barrier (BBB) and is trapped in the brain of LPS-treated animals. [^{18}F]ox-ROStrace, the oxidized form of [^{18}F]ROStrace, does not cross the BBB. [^{18}F]ROStrace is a suitable radiotracer for imaging superoxide levels in the central nervous system with PET[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hou C, et al. Development of a Positron Emission Tomography Radiotracer for Imaging Elevated Levels of Superoxide in Neuroinflammation. ACS Chem Neurosci. 2018 Mar 21;9(3):578-586.

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

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