Data Sheet (Cat.No.T24956)

TargetMol

(18F)LBT 999

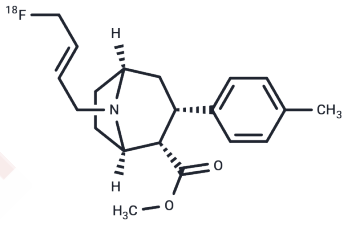
Chemical Properties

CAS No. : 940949-46-2

Formula: C20H26FNO2

Molecular Weight: 330.434

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	(18F)LBT 999 is a positron emission tomography (PET) tracer, used for the quantification of the dopamine transporter (DAT) in the healthy rat brain.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0264 mL	15.1318 mL	30.2636 mL
5 mM	0.6053 mL	3.0264 mL	6.0527 mL
10 mM	0.3026 mL	1.5132 mL	3.0264 mL
50 mM	0.0605 mL	0.3026 mL	0.6053 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sérrière S, Tauber C, Vercouillie J, Guilloteau D, Deloye JB, Garreau L, Galineau L, Chalon S. In vivo PET quantification of the dopamine transporter in rat brain with [^{18}F]LBT-999. Nucl Med Biol. 2014 Jan;41(1):106-13. doi: 10.1016/j.nucmedbio.2013.09.007. Epub 2013 Oct 8. PubMed PMID: 24210285.

Saba W, Peyronneau MA, Dollé F, Goutal S, Bottlaender M, Valette H. Difficulties in dopamine transporter radioligand PET analysis: the example of LBT-999 using [18F] and [11C] labelling Part I: PET studies. Nucl Med Biol. 2012 Feb;39(2):227-33. doi: 10.1016/j.nucmedbio.2011.08.003. Epub 2011 Oct 26. PubMed PMID: 22033025.

Peyronneau MA, Saba W, Dollé F, Goutal S, Coulon C, Bottlaender M, Valette H. Difficulties in dopamine transporter radioligand PET analysis: the example of LBT-999 using [18F] and [11C] labelling: part II: Metabolism studies. Nucl Med Biol. 2012 Apr;39(3):347-59. doi: 10.1016/j.nucmedbio.2011.09.006. Epub 2011 Dec 11. PubMed PMID: 22154687.

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