

Lissamine rhodamine B

Chemical Properties

CAS No.:	2609-88-3
Formula:	C ₂₇ H ₃₀ N ₂ O ₇ S ₂
Molecular Weight:	558.66
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Lissamine rhodamine B, a new Radiotracer, is used for Imaging Tumors by Positron Emission Tomography.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.790 mL	8.950 mL	17.900 mL
5 mM	0.358 mL	1.790 mL	3.580 mL
10 mM	0.179 mL	0.895 mL	1.790 mL
50 mM	0.036 mL	0.179 mL	0.358 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Li X, Yin Y, Du B, Li N, Li Y. The Synthesis and Evaluations of the (6 8) Ga-Lissamine Rhodamine B (LRB) as a New Radiotracer for Imaging Tumors by Positron Emission Tomography. Biomed Res Int. 2016;2016:8549635. doi: 10.1155/2016/8549635. Epub 2016 Feb 2. PubMed PMID: 26949707; PubMed Central PMCID: PMC4754471.
2. Zhou Y, Kim YS, Yan X, Jacobson O, Chen X, Liu S. 64Cu-labeled lissamine rhodamine B: a promising PET radiotracer targeting tumor mitochondria. Mol Pharm. 2011 Aug 1;8(4):1198-208. doi: 10.1021/mp200025m. Epub 2011 May 24. PubMed PMID: 21545131; PubMed Central PMCID: PMC3148415.
3. Glunde K, Foss CA, Takagi T, Wildes F, Bhujwalla ZM. Synthesis of 6'-O-lissamine-rhodamine B-glucosamine as a novel probe for fluorescence imaging of lysosomes in breast tumors. Bioconjug Chem. 2005 Jul-Aug;16(4):843-51. PubMed PMID: 16029026.
4. Krishnamoorthy K, Begley TP. Reagent for the detection of protein thiocarboxylates in the bacterial proteome: lissamine rhodamine B sulfonyl azide. J Am Chem Soc. 2010 Aug 25;132(33):11608-12. doi: 10.1021/ja1034107. PubMed PMID: 20677756; PubMed Central PMCID: PMC2927480.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481