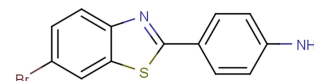


4-(6-Bromo-2-benzothiazolyl)benzenamine

Chemical Properties

CAS No.:	566169-97-9
Formula:	C ₁₃ H ₉ BrN ₂ S
Molecular Weight:	305.19
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	4-(6-Bromo-2-benzothiazolyl)benzenamine is a β -amyloid PET tracer and can be used in the diagnosis of neurological diseases.
Targets(IC ₅₀)	Others: None
In vivo	4-(6-Bromo-2-benzothiazolyl)benzenamine plus UVA is shown to reduce murine melanoma size in a mouse model. 4-(6-Bromo-2-benzothiazolyl)benzenamine-PDT may serve as a potential ancillary modality for the treatment of melanoma [2].
Cell Research	For fluorescence Measurement of Uptake of 4-(6-Bromo-2-benzothiazolyl)benzenamine, cultured A375 cells are seeded on glass coverslips with a density of 2×10^4 cells/well in 24-well plate for 24 h until cell attachment. Then the cells are exposed to 4-(6-Bromo-2-benzothiazolyl)benzenamine at 5 μ M for indicated times in the dark. The cells are washed twice with PBS and are then fixed with 4% paraformaldehyde at 4°C for 30 min. The qualitative expression of cell fluorescence is determined using a Leica inverted microscope [2].
Animal Research	A total of 5×10^6 B16 cells are inoculated into female ICR mice (about 19-21 g, 7 weeks). The subcutaneous inoculation of tumor cells resulted in tumor generation at the injection site. When tumors reached about 4×4 mm ² in diameter, mice are separated into groups. Each group had four mice in each experiment; 4 mg/kg of 4-(6-Bromo-2-benzothiazolyl)benzenamine is injected into the tumor site, and then the tumor is exposed to different doses of UVA on the day after injection. Tumor volume is measured by calipers every 5 days after agent injection, and tumor volume is calculated [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.277 mL	16.383 mL	32.766 mL
5 mM	0.655 mL	3.277 mL	6.553 mL
10 mM	0.328 mL	1.638 mL	3.277 mL
50 mM	0.066 mL	0.328 mL	0.655 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. Klunk W, et al. Benzothiazole derivative compounds, compositions and uses. WO2004083195 A1
2. Chen YK, et al. Apoptosis induced by 2-aryl benzothiazoles-mediated photodynamic therapy in melanomas via mitochondrial dysfunction. Chem Res Toxicol. 2014 Jul 21;27(7):1187-98.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481