

PSMA-DIM

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	PSMA-DIM is a dimeric PSMA ligand with a Kd value of 37.09 nM for LNCaP cells. It can be radiolabeled with [68Ga]Ga to form [68Ga]Ga-PSMA-DIM, which effectively differentiates cells and animal models with varying PSMA expression levels. [68Ga]Ga-PSMA-DIM exhibits high uptake in LNCaP cells and maximizes tumor uptake. PSMA-DIM is applicable in prostate cancer (PCa) research.
Targets(IC50)	PSMA
In vitro	[68 Ga]Ga-PSMA-DIM (1.58 nM, 15-120 min) demonstrates superior endocytosis in LNCaP cells compared to 22Rv1 and PC-3 cells, with its efficacy being contingent on the expression level of PSMA.
In vivo	Administered intravenously in a dose of 5.55 MBq, [⁶⁸ Ga]Ga-PSMA-DIM demonstrated significant uptake in PSMA-positive LNCaP and 22Rv1 mouse tumors, while exhibiting minimal accumulation in PC-3 tumors.

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