Product Data Sheet

Product Name: DOTA-GPC3 targeting peptide 2
Cat. No.: GC78793

Chemical Properties

Cas. No.	3066439-94-6		
Formula	$C_{107}H_{145}N_{21}O_{29}S$	M.Wt	2221.48
Solubility	DMSO: ≥ 100 mg/mL (45.02 mM)	Storage	Store at -20°C, away from moisture

General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

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

Background

DOTA-GPC3 targeting peptide 2 (Sequence 30) is a RDC peptide targeting GPC3, with K d of 0.3 nM. DOTA-GPC3 targeting peptide 2 is composed of DOTA and GPC3 targeting peptide 2. DOTA-GPC3 targeting peptide 2 can be labeled with radioactive elements [1].

In Vitro, DOTA-GPC3 targeting peptide 2 is used to achieve high affinity and high selectivity in binding to the GPC3 protein. GPC3 is an overexpressed tumor-associated antigen in various solid tumors (especially hepatocellular carcinoma), and it is an important drug target[1].

References:

[1]. Takeru Ehara, et al. Peptide compositions targeting glypican-3 and uses thereof. WO2024252336A1. WIPO (PCT). 2024-06-06.

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