

Product Data Sheet

Product Name: AKIR001
Cat. No.: GC81483

Chemical Properties

Cas. No.

Formula M.Wt 145.48

Solubility Storage Store at -20°C

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.

Structure



Background

AKIR001 is a high-affinity human IgG1 antibody targeting CD44v6. AKIR001 carries LALA-silencing mutations in its FcγR-binding domain to reduce FcγR and C1q interactions, minimizing tissue

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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interactions and limiting CDC and ADCC risks. [¹⁷⁷ Lu] radiolabeled AKIR001, namely [¹⁷⁷ Lu]Lu-AKIR001, has anticancer activity against epidermoid carcinoma [1].

In Vivo, [¹⁷⁷Lu]Lu-AKIR001 (5-15 MBq) exhibits dose-dependent efficacy in female BALB/c nu/nu mice with A431 cell xenograft (with complete response rates of 75-80%) [1].

In Vitro, AKIR001 lacks CDC and ADCC activity in BxPC-3 cells [1].

References:

[1]. Mortensen ACL, et al. Preclinical Validation of [¹⁷⁷ Lu]Lu-AKIR001, a CD44v6-Targeted Radiotherapeutic Entering First-in-Human Trials. J Nucl Med. Published online November 6, 2025.

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