

Product Data Sheet

Talquetamab

Cat. No.: HY-P99394 **CAS No.:** 2226212-40-2

Molecular Weight: 146000
Target: CD3

Pathway: Immunology/Inflammation

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Talquetamab (JNJ-64407564) is a humanized bispecific antibody that binds to GPRC5D (member of G protein-coupled receptor family C5 group D) and CD3 to induce T cell-mediated killing of GPRC5D-expressing MM cells through T cell recruitment and activation. Talquetamab (JNJ-64407564) has antitumor activity ^{[1][2]} .
In Vitro	Talquetamab (0.00128-4.0 μ g/mL, 48 h) effectively induces multiple myeloma cell lysis and leads to a significant increase in the proportion of activated CD ⁴⁺ and CD ⁸⁺ T cells, as well as to a dose-dependent increase in the levels of granzyme B and inflammatory cytokines such as IL-6, IL-8 and TNF- $\alpha^{[1]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

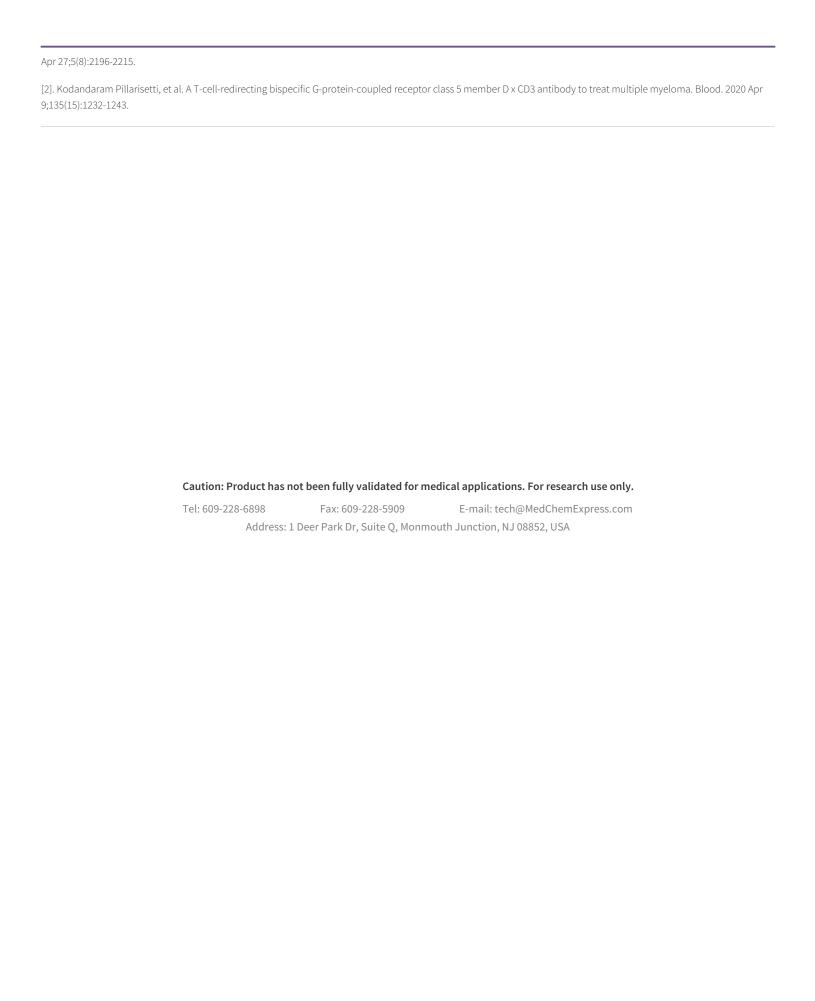
In Vivo	Talquetamab (JNJ-64407564) (0.1-50 μg, s.c. or i.v.) has significant antitumor activity in H929 and MM mouse models ^[2] .
	MCF has not independently confirmed the accuracy of these methods. They are for reference only

Animal Model:	Female NSG mice with H929 cells ^[2]
Dosage:	0.1-10 μg (0.005 mg/kg)
Administration:	Subcutaneous injection; on days 0, 3, 5, 7, and 10
Result:	Completely blocked tumor formation at 1 μg and 10 μg doses.

Animal Model:	Female NSG mice with human MM cells ^[2]
Dosage:	0.1-50 μg (0.005 mg/kg)
Administration:	Intravenous injection; on days 15, 18, 22, 24, 29, 32, and 36
Result:	Significantly inhibited tumor growth by 65% at the dose of 1 μ g and showed significant anti-tumor activity at 10 and 50 μ g with complete tumor regression.

REFERENCES

[1]. Christie P M Verkleij, et al. Preclinical activity and determinants of response of the GPRC5DxCD3 bispecific antibody talquetamab in multiple myeloma. Blood Adv. 2021



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