

## Peptide R54

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture  
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	Peptide R54 (Pep R54; CXCR4 antagonist peptide 19) is an antagonistic polypeptide targeting CXCR4, known for its significant anticancer properties. It inhibits CXCR4-dependent cell migration, epithelial-mesenchymal transition, and the development of lung metastasis, offering better serum stability and higher CXCR4 affinity (IC <sub>50</sub> =20 nM) compared to the lead compound. Peptide R54 works synergistically with anti-PD-1 therapy to exhibit antitumor effects in vivo, enhancing granzyme activity and reducing Foxp3 cell infiltration. It is useful for research in colon cancer, ovarian cancer, and melanoma.
Targets(IC <sub>50</sub> )	CXCR

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