

CBP-1008

## 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	CBP-1008 is a dual-ligand peptide-drug conjugate (PDC) with MMAE, targeting folate receptor (FR $\alpha$ ) and TRPV6. It exhibits high binding affinity to FR $\alpha$ and low affinity to TRPV6. CBP-1008 shows antitumor activity and can be utilized for research in advanced solid tumors such as colorectal cancer, breast cancer, non-small cell lung cancer, ovarian cancer, adrenocortical carcinoma, and follicular dendritic cell sarcoma.
Targets(IC50)	TRP/TRPV Channel
In vitro	CBP-1008 demonstrates accelerated FR $\alpha$ -mediated internalization and cytotoxicity in the presence of TRPV6 compared to when TRPV6 is absent.
In vivo	CBP-1008 accumulates and remains in tumors with a half-life exceeding 48 hours. The maximum tolerated dose (MTD) of CBP-1008 is 4 mg/kg in mice, 2 mg/kg in rats, and 1 mg/kg in monkeys. Its efficacy against FR $\alpha$ and TRPV6 positive ovarian PDX tumors surpasses that against ovarian PDX tumors with at least one negative marker, with tumor growth inhibition strongly correlated with IHC scores in FR $\alpha$ + /TRPV6+ tumors.

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