

## RAGE antagonist peptide acetate

## Chemical Properties

CAS No. :

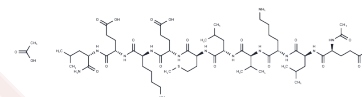
Formula: C59H105N13O19S

Molecular Weight: 1332.61

Keep away from moisture

Storage: 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	RAGE antagonist peptide acetate is an advanced antagonist of glycation end products (RAGE). RAGE antagonist peptide acetate possesses anti-tumor and anti-inflammatory activities. RAGE antagonist peptide acetate prevents RAGE from binding with several of its most important ligands, including HMGB-1, S100P, and S100A4.
Targets(IC50)	Beta Amyloid
In vitro	In cancer cells, RAGE antagonist peptide acetate reduces the ability of the ligands to stimulate RAGE activation of NFκB[2].
In vivo	In mice bearing asthma, RAGE antagonist peptide acetate (RAP; 4 mg/kg; i.p.) blunts airway reactivity, airway inflammation and goblet cell metaplasia, and decreases release of Th2 cytokines. RAGE antagonist peptide acetate also reduces total, cytoplasmic and nuclear levels of β-catenin, enhanced β-catenin phosphorylation at Ser33/37/Thr41, which triggers ubiquitination, down-regulated expression of β-catenin targeted genes, and tends to keep β-catenin at the cytomembrane, shifting β-catenin from a signalling active pattern to an adhesive function[1]. RAGE antagonist peptide acetate reduces the growth and metastasis of pancreatic tumors and also inhibited glioma tumor growth. RAGE antagonist peptide acetate (100 μg) inhibits RAGE-mediated Basal NFκB Activity in PDAC cells in vivo[2].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.7504 mL	3.752 mL	7.5041 mL
5 mM	0.1501 mL	0.7504 mL	1.5008 mL
10 mM	0.075 mL	0.3752 mL	0.7504 mL
50 mM	0.015 mL	0.075 mL	0.1501 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Lihong Yao, et al. The receptor for advanced glycation end products is required for  $\beta$ -catenin stabilization in a chemical-induced asthma model. *Br J Pharmacol*. 2016 Sep;173(17):2600-13.

Thiruvengadam Arumugam, et al. S100P-derived RAGE antagonistic peptide reduces tumor growth and metastasis. *Clin Cancer Res*. 2012 Aug 15;18(16):4356-64.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481