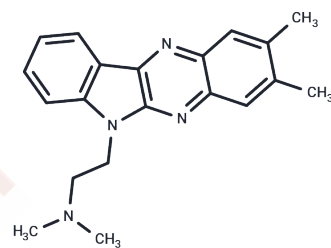


B220

## Chemical Properties

CAS No. : 112228-65-6  
 Formula: C<sub>20</sub>H<sub>22</sub>N<sub>4</sub>  
 Molecular Weight: 318.42  
 Appearance: no data available  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	B220, an antiviral agent, inhibits the growth of HSV-1, HSV-2, and human cytomegalovirus (CMV).
Targets(IC <sub>50</sub> )	HSV
In vitro	B220 inhibits the neutrophil release of reactive oxygen species, as well as the intracellular generation of reactive oxygen species. The inhibition is not achieved through direct oxygen radical scavenger activity of B220, and B220 has no immediate effects on the activity of the assembled oxidase. The neutrophil capability to phagocytose fluorescein-labeled opsonized yeast cells is reduced by B220. Cells preincubated with B220 (10 µg/mL) and then stimulated with the formylated peptide fMLP mobilize fewer C3 receptors on their surface than the control cells [2].

## Solubility Information

Solubility	DMSO: 9 mg/mL (28.26 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1405 mL	15.7025 mL	31.4051 mL
5 mM	0.6281 mL	3.1405 mL	6.281 mL
10 mM	0.3141 mL	1.5703 mL	3.1405 mL
50 mM	0.0628 mL	0.3141 mL	0.6281 mL

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.

### Reference

Mohammed Homman, et al. Pharmaceutical formulation of B220 for topical treatment of herpes. EP 2489354 A1.  
Harbecke O, et al. The synthetic non-toxic drug 2,3-dimethyl-6(2-dimethylaminoethyl)-6H-indolo-(2,3-b) quinoxaline inhibits neutrophil production of reactive oxygen species. J Leukoc Biol. 1999 Jun;65(6):771-7.

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