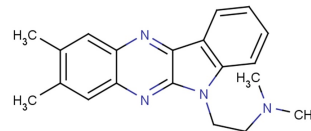


B220

## 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:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



## 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-1: None  |
| 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 | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

### Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 3.141 mL | 15.703 mL | 31.405 mL |
| 5 mM  | 0.628 mL | 3.141 mL  | 6.281 mL  |
| 10 mM | 0.314 mL | 1.57 mL   | 3.141 mL  |
| 50 mM | 0.063 mL | 0.314 mL  | 0.628 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Mohammed Homman, et al. Pharmaceutical formulation of B220 for topical treatment of herpes. EP 2489354 A1.
2. 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.

Inhibitors · Natural Compounds · Compound Libraries

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