Product Data Sheet

Chemical Properties

**Product Name:** BAY 57-1293  
**Cas No.:** 348086-71-5  
**M.Wt:** 402.49  
**Formula:** C18H18N4O3S2  

**Chemical Name:** N-methyl-N-(4-methyl-5-sulfamoyl-1,3-thiazol-2-yl)-2-(4-pyridin-2-yl phenyl)acetamide  
**Canonical SMILES:** CC1=C(SC(=N1)N(C(=O)CC2=CC=C(C=C2)C3=CC=CC=N3)S(=O)(=O)N

**Solubility:** >13.9mg/mL in DMSO  
**Storage:** Store at -20°C  
**General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.  
**Shopping Condition:** Evaluation sample solution: ship with blue ice  
All other available size: ship with RT, or blue ice upon request

Biological Activity

**Targets:** Microbiology & Virology  
**Pathways:** HSV

**Description:**  
BAY 57-1293 is a potent and safe inhibitor of HSV helicase-primase with IC50 value of 12nM [1]. BAY 57-1293 displays anti-herpes activity through inhibiting the helicase-primase and affecting the viral DNA synthesis. In the in vitro viral replication assay, BAY 57-1293 shows inhibition against HSV-1 F, HSV-2 G and acyclovir-resistant HSV-1 F mutant with IC50 value of 20nM. In the plaque reduction assay and the conventional cytopathogenicity assay, BAY 57-1293 shows IC50...
values of 0.01-0.02μM and 0.01-0.03 μM, respectively. Besides that, BAY 57-1293 is active at an IC50 value of 10nM–30nM against all clinical isolates of HSV-1 and HSV-2. Furthermore, BAY 57-1293 is active in vivo. The oral administration of BAY 57-1293 shows 10-fold more potent than valacyclovir in a murine model of disseminated herpes infection. In a rat lethal challenge model, BAY 57-1293 exerts profound antiviral activity without toxic effects. [1, 2]

**Reference:**

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.