Wiskostatin
Item No. 15047

CAS Registry No.: 253449-04-6
Formal Name: 3,6-dibromo-α-[(dimethylamino)methyl]-9H-carbazole-9-ethanol
MF: C_{17}H_{18}Br_{2}N_{2}O
FW: 426.1
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: \(\lambda_{\text{max}}: 234, 241, 271, 303, 344, 359\) nm

Laboratory Procedures
For long term storage, we suggest that wiskostatin be stored as supplied at -20°C. It should be stable for at least two years.

Wiskostatin is supplied as a crystalline solid. A stock solution may be made by dissolving the wiskostatin in the solvent of choice. Wiskostatin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of wiskostatin in these solvents is approximately 0.25, 20, and 25 mg/ml, respectively.

Wiskostatin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, wiskostatin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Wiskostatin has a solubility of approximately 0.1 mg/ml in a 1:9 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Wiskott-Aldrich syndrome proteins (WASPs) regulate the actin cytoskeleton by directly interacting with actin in the Arp2/3 complex. As a result, they have essential functions in diverse cellular processes, including phagocytosis, cell motility, and membrane trafficking. Wiskostatin is a cell-permeable, selective inhibitor of neural WASP (N-WASP, \(K_{\text{IC}_{50}} \approx 10 \mu\text{M}\)). It directly associates with the GTPase-binding domain of N-WASP, preventing its activation by Cdc42 and phosphatidylinositol 4,5-bisphosphate. By inhibiting N-WASP, wiskostatin interferes with membrane transport, endocytosis, and neurological development.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/15047

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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