LKT Laboratories, Inc.

Kb NB 142-70

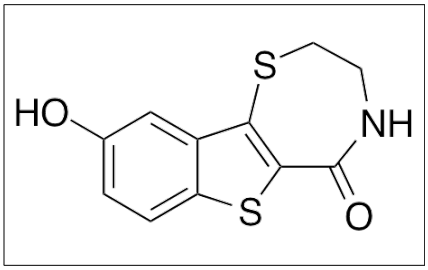
Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID K0652
CAS No. 1233533-04-4
Chemical Name 9-Hydroxy-3,4-dihydro-2H-[1]benzothiolo[2,3-f][1,4]thiazepin-5-one

Synonym Kb-NB142-70; 3,4-Dihydro-9-hydroxy-[1]benzothieno[2,3-f]-1,4-thiazepin-5(2H)-one; CHEMBL1672571

Formula $C_{11}H_9NO_2S_2$
Formula Wt. 251.32
Melting Point
Purity ≥98%
Solubility DMSO 100mM



Bulk quanitites available upon request

Product ID	Size
K0652	5 mg
K0652	25 mg

Store Temp -20˚C
Ship Temp Ambient
Description Kb NB 142-70 is an inhibitor of PKD that is used to study PKD activity in research models. Kb NB 142-70 prevents angiotensin II-induced phosphorylation of histone deacetylases and increases activation of Akt in intestinal epithelial cells. This compound may also inhibit migration of intestinal epithelial cells.

References

Sinnett-Smith J, Ni Y, Wang J, et al. Protein kinase D1 mediates class IIa histone deacetylase phosphorylation and nuclear extrusion in intestinal epithelial cells: role in mitogenic signaling. Am J Physiol Cell Physiol. 2014 May 15;306(10):C961-71. PMID: 24647541.

Ni Y, Sinnett-Smith J, Young SH, et al. PKD1 mediates negative feedback of PI3K/Akt activation in response to G protein-coupled receptors. PLoS One. 2013 Sep 9;8(9):e73149. Erratum in: PLoS One. 2014;9(1). PMID: 24039875.

Young SH, Rozengurt N, Sinnett-Smith J, et al. Rapid protein kinase D1 signaling promotes migration of intestinal epithelial cells. Am J Physiol Gastrointest Liver Physiol. 2012 Aug 1;303(3):G356-66. PMID: 22595992.