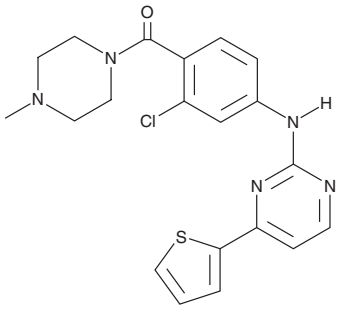
PRODUCT INFORMATION

GSK3β Inhibitor XVIII

Item No. 21198

CAS Registry No.: 1139875-74-3
Formal Name: [2-chloro-4-[[4-(2-thienyl)-2-pyrimidinyl]amino]phenyl](4-methyl-1-piperazinyl)-methanone
Synonym: CUN75743
MF: $C_{20}H_{20}ClN_5OS$
FW: 413.9
Purity: ≥98%
UV/Vis.: λ_{max}: 288 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

GSK3β inhibitor XVIII is supplied as a crystalline solid. A stock solution may be made by dissolving the GSK3β inhibitor XVIII in the solvent of choice, which should be purged with an inert gas. GSK3β inhibitor XVIII is soluble in the organic solvent DMSO.

Description

GSK3β inhibitor XVIII is an inhibitor of glycogen synthase kinase 3β (GSK3β; IC_{50} = 64 nM).[1] It induces β-catenin nuclear translocation in HEK293 cells and activates β-catenin-mediated transcriptional activity in a reporter assay using the same cells. GSK3β inhibitor XVIII induces proliferation of R7T1 mouse pancreatic β-cells (EC_{50} = 1.14 µM) and primary rat pancreatic β-cells at 2 µM.

Reference

1. Wang, W., Walker, J.R., Wang, X., *et al.* Identification of small-molecule inducers of pancreatic β-cell expansion. *Proc. Nat. Acad. Sci. USA* **106(5),** 1427-1432 (2009).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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