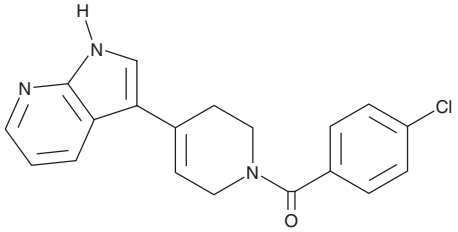
PRODUCT INFORMATION

ERK5-IN-5

Item No. 46484

CAS Registry No.:	2318792-30-0
Formal Name:	(4-chlorophenyl)[3,6-dihydro-4-(1H-pyrrolo[2,3-b]pyridin-3-yl)-1(2H)-pyridinyl]-methanone
MF:	$C_{19}H_{16}ClN_3O$
FW:	337.8
Purity:	≥98%
Supplied as:	A 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

ERK5-IN-5 is supplied as a solid. A stock solution may be made by dissolving the ERK5-IN-5 in the solvent of choice, which should be purged with an inert gas. ERK5-IN-5 is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

ERK5-IN-5 is an ERK5 inhibitor.[1] It reduces the levels of phosphorylated ERK5 (pERK5) in A549 non-small cell lung cancer (NSCLC) cells at 10 µM and inhibits the proliferation of the same cells with an IC_{50} value of 6.23 µg/ml. ERK5-IN-5 reduces epileptiform activity induced by 4-aminopyridine (4-AP; Item No. 18511) in primary mouse cortical neurons.[2]

References

1. Zhang, Q., Gao, X., Duan, X., *et al*. Design, synthesis and SAR of novel 7-azaindole derivatives as potential Erk5 kinase inhibitor with anticancer activity. *Bioorg. Med. Chem.* **95**, 117503 (2023).
2. Meng, Q., Ren, X., Wang, R., *et al*. Design, synthesis, anticonvulsant activity and structure-activity relationships of novel 7-Azaindole derivatives. *Bioorg. Chem.* **133**, 106430 (2023).

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
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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