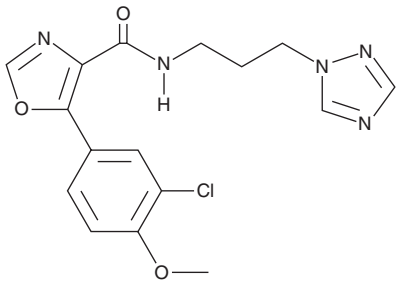
PRODUCT INFORMATION

PF-04802367

Item No. 46673

CAS Registry No.:	1962178-27-3
Formal Name:	5-(3-chloro-4-methoxyphenyl)-N-[3-(1H-1,2,4-triazol-1-yl)propyl]-4-oxazolecarboxamide
Synonym:	PF-367
MF:	$C_{16}H_{16}ClN_5O_3$
FW:	361.8
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

PF-04802367 is supplied as a solid. A stock solution may be made by dissolving the PF-04802367 in the solvent of choice, which should be purged with an inert gas. PF-04802367 is soluble (≥10 mg/ml) in DMSO.

Description

PF-04802367 is an inhibitor of glycogen synthase kinase 3α (GSK3α) and GSK3β (IC_{50}s = 10 and 9 nM, respectively).[1] It is selective for these kinases in a panel of 240 kinases, where it inhibits only four other kinases by more than 65% at 10 µM. PF-04802367 inhibits tau phosphorylation in CHO cells overexpressing GSK3β and tau (IC_{50} = 466 nM). Subcutaneous administration of PF-04802367 (50 mg/kg) reduces phosphorylated tau levels in rat brain by 76% and phosphorylated glycogen synthase in rat skeletal muscle by 92% after one hour.

Reference

1. Liang, S.H., Chen, J.M., Normandin, M.D., *et al.* Discovery of a highly selective glycogen synthase kinase-3 inhibitor (PF-04802367) that modulates tau phosphorylation in the brain: Translation for PET neuroimaging. *Angew Chem. Int. Ed. Engl.* **55(33)**, 9601-9605 (2016).

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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