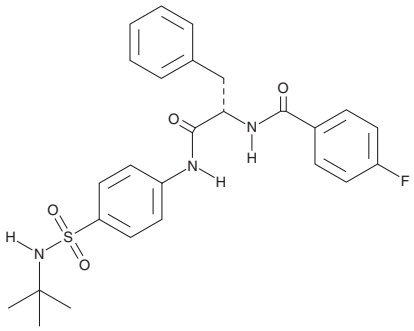
PRODUCT INFORMATION

CMPD-39X

Item No. 45608

CAS Registry No.:	2242582-40-5
Formal Name:	(αS)-N-[4-[[(1,1-dimethylethyl) amino]sulfonyl]phenyl]-α-[(4-fluorobenzoyl)amino]-benzenepropanamide
Synonym:	$USP30_{inh}$
MF:	$C_{26}H_{28}FN_3O_4S$
FW:	497.6
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

CMPD-39 is supplied as a solid. A stock solution may be made by dissolving the CMPD-39 in the solvent of choice, which should be purged with an inert gas. CMPD-39 is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

CMPD-39 is an inhibitor of ubiquitin-specific protease 30 (USP30; IC_{50} = 20 nM in a cell-free assay).[1] It is selective for USP30 over a panel of 39 other deubiquitinases at 10 µM.[2] CMPD-39 increases the number and size of mitolysosomes in SH-SY5Y cells and increases pexophagy in U2OS cells. It restores mitophagy in dopaminergic neurons derived from Parkinson's disease patient-derived induced neuronal progenitor cells that were generated from fibroblasts harboring a loss of function mutation in *PRKN*.

References

1. Kluge, A.F., Lagu, B.R., Maiti, P., *et al.* Novel highly selective inhibitors of ubiquitin specific protease 30 (USP30) accelerate mitophagy. *Bioorg. Med. Chem. Lett.* **28(15)**, 2655-2659 (2018).
2. Rusilowicz-Jones, E.V., Barone, F.G., Lopes, F.M., *et al.* Benchmarking a highly selective USP30 inhibitor for enhancement of mitophagy and pexophagy. *Life Sci. Alliance* **5(2)**, e202101287 (2021).

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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