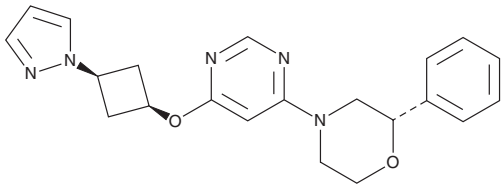
PRODUCT INFORMATION

ELOVL1-22

Item No. 36142

Formal Name:	(S)-4-(6-((1S,3R)-3-(1H-pyrazol-1-yl)cyclobutoxy)pyrimidin-4-yl)-2-phenylmorpholine
MF:	$C_{21}H_{23}N_5O_2$
FW:	377.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 253 nm
Supplied as:	A 10 mg/ml solution in ethanol
Storage:	-20°C
Stability:	≥2 years



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

Description

ELOVL1-22 is an inhibitor of ELOVL fatty acid elongase 1 (ELOVL1).[1] It reduces lysohexacosanoylphosphatidylcholine (LPC(C26:0)) synthesis in HEK293 cells (IC_{50} = 400 pM), a marker of ELOVL1 inhibition, and is selective for ELOVL1 over ELOVL4, -6, and -7 (IC_{50}s = >50 µM for all), as well as a panel of 34 receptors at 10 µM. ELOVL1-22 (1-32 mg/kg) reduces blood and CNS levels of LPC(C26:0) in an *Abcd1*$^{-/-}$ mouse model of adrenoleukodystrophy (ALD), a neurodegenerative disease characterized by rapid inflammatory demyelination of the CNS.

Reference

1. Boyd, M.J., Collier, P.N., Clark, M.P., *et al*. Discovery of novel, orally bioavailable pyrimidine ether-based inhibitors of ELOVL1. *J. Med. Chem.* **64(24)**, 17777-17794 (2021).

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