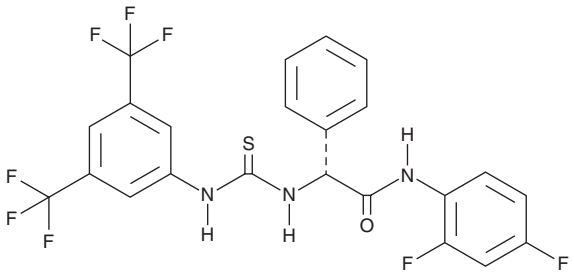
PRODUCT INFORMATION

BL 918

Item No. 34303

CAS Registry No.:	2101517-69-3
Formal Name:	αR-[[[[3,5-*bis*(trifluoromethyl)phenyl]amino]thioxomethyl]amino]-N-(2,4-difluorophenyl)-benzeneacetamide
MF:	$C_{23}H_{15}F_8N_3OS$
FW:	533.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 251 nm
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

BL 918 is supplied as a solid. A stock solution may be made by dissolving the BL 918 in the solvent of choice, which should be purged with an inert gas. BL 918 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of BL 918 in these solvents is approximately 30 mg/ml.

Description

BL 918 is an activator of unc-51-like autophagy activating kinase 1 (ULK1).[1] It activates ULK1 with an EC_{50} value of 24.14 nM in an ADP-based kinase assay. BL 918 (5 µM) increases the levels of ULK1 phosphorylated at serine 317 (Ser^{317}) or Ser^{555}, reduces the level of ULK1 phosphorylated at Ser^{757}, and induces autophagy in SH-SY5Y cells. It reduces motor dysfunction and increases the number of dopaminergic neurons in the striatum in a mouse model of Parkinson's disease induced by MPTP when administered at doses of 40 and 80 mg/kg.

Reference

1. Ouyang, L., Zhang, L., Zhang, S., *et al.* Small-molecule activator of UNC-51-like kinase 1 (ULK1) that induces cytoprotective autophagy for Parkinson's disease treatment. *J. Med. Chem.* **61(7)**, 2776-2792 (2018).

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