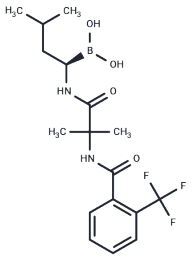
# Data Sheet (Cat.No.T12079)

TargetMol

ML604440

## Chemical Properties



CAS No. : 1140517-08-3

Formula: C17H24BF3N2O4

Molecular Weight: 388.19

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

## Biological Description

| | |
|---|---|
| Description | ML604440 is a cell permeable proteasome β1i (LMP2) subunit inhibitor. |
| Targets(IC50) | Proteasome |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 100 mg/mL (257.61 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.5761 mL | 12.8803 mL | 25.7606 mL |
| 5 mM | 0.5152 mL | 2.5761 mL | 5.1521 mL |
| 10 mM | 0.2576 mL | 1.288 mL | 2.5761 mL |
| 50 mM | 0.0515 mL | 0.2576 mL | 0.5152 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference


de Bruin G, et al. Structure-based design of β1i or β5i specific inhibitors of human immunoproteasomes. J Med Chem. 2014 Jul 24;57(14):6197-209

Chen X, Chen Y, Ou Y, et al. Bortezomib inhibits NLRP3 inflammasome activation and NF-κB pathway to reduce psoriatic inflammation. Biochemical Pharmacology. 2022, 206: 115326.

Basler M, et al. Co-inhibition of immunoproteasome subunits LMP2 and LMP7 is required to block autoimmunity. EMBO Rep. 2018 Dec;19(12). pii: e46512.

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