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**Product Data Sheet**

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Product Name: PF 4778574

Cat. No.: GC14492

**Chemical Properties**

Cas. No. 1219633-99-4

Chemical Name N-((3R,4S)-3-(4-(5-cyanothiophen-2-yl)phenyl)tetrahydro-2H-pyran-4-yl)propane-2-sulfonamide

SMILES CC(S(N[C@@]1([H])CCOC[C@]1([H])C2=CC=C(C3=CC=C(S3)C#N)C=C2)(=O)=O)CFormula C<sub>19</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub>S<sub>2</sub> M.Wt 390.52

Solubility &lt;39.05mg/ml in DMSO; &lt;19.53mg/ml in ethanol Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

PF-4778574 is a positive allosteric modulation of AMPA receptor with EC<sub>50</sub> of 45 to 919 nM in different cells.

## References:

[1]. Roberts BM, et al. Prevention of ketamine-induced working memory impairments by AMPA potentiators in a nonhuman primate model of cognitive dysfunction. Behav Brain Res. 2010 Sep 1;212(1):41-8.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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