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**Product Data Sheet**

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Product Name: (S)-Ceralasertib

Cat. No.: GC34999

**Chemical Properties**

Cas. No. 1352226-87-9

SMILES O=[S@](C1(CC1)C2=NC(C3=C4C(NC=C4)=NC=C3)=NC(N5CCOC[C@H]5C)=C2)(C)=NFormula C<sub>20</sub>H<sub>24</sub>N<sub>6</sub>O<sub>2</sub>S M.Wt 412.51

Solubility Soluble in DMSO 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**

(S)-Ceralasertib is extracted from patent WO2011154737A1, Compound II, exhibits an IC<sub>50</sub> of 2.578 nM[1]. (S)-Ceralasertib is a potent and selective sulfoximine morpholinopyrimidine ATR inhibitor with excellent preclinical physicochemical and pharmacokinetic (PK) characteristics. (S)-Ceralasertib is developed improving aqueous solubility and eliminates CYP3A4 time-dependent inhibition[2].

[1]. By Foote, et al. Morpholinopyrimidines as ATR kinase inhibitors and their preparation, pharmaceutical compositions and use in the treatment of cancer. PCT Int. Appl. (2011), WO 2011154737 A1 20111215. [2]. Foote KM, et al. Discovery and Characterization of AZD6738, a Potent Inhibitor of Ataxia Telangiectasia Mutated and Rad3 Related (ATR) Kinase with Application as an Anticancer Agent. J Med Chem. 2018 Nov 21;61(22):9889-9907.

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

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