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## Product Data Sheet

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Product Name: VO-OHpic

Cat. No.: GC50041

**Chemical Properties**

Cas. No. 675848-25-6

SMILES [O-][V]=O.OC(=O)C1=C(O)C=CC=N1.OC(=O)C1=C(O)C=CC=N1

Formula C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O<sub>8</sub>V M.Wt 361.16

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**

Potent inhibitor of PTEN (phosphatase and tensin homolog) (IC<sub>50</sub> = 35 nM). Displays selectivity for PTEN over cysteine-based phosphatases such as SopB, MTM, PTPβ and SAC (IC<sub>50</sub> values are 588 nM, 4.03, 57.5 and >10 μM respectively). Increases PIP<sub>2</sub> and PIP<sub>3</sub> levels; also increases Akt translocation in NIH/3T3 fibroblasts. Blocks the immunosuppressant activity of IDO-activated Tregs. Promotes antitumor inflammatory response in combination with immunotherapy and enhances anticancer chemotherapy in tumor-bearing mice.

Rosivatz et al (2006) A small-molecule inhibitor for phosphatase and tensin homologue deleted on chromosome 10 (PTEN). ACS Chem.Biol. 1 780 PMID:17240976 |Sharma et al (2015) The PTEN pathway in Tregs is a critical driver of the suppressive tumor microenvironment. Sci.Adv. 1 e1500845 PMID:26601142

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

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